



Deep Well

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELL RECORD

Permit No. Jac 406 Kenna Quad.		Gas Well
Company	United Carbon	CASING & TUTING 1 Company
Address	Box 1913, Cha	orleston, W.Va. 16 14! 14!
Farm Location	Eliz Ward Per Duddin Fork	rkins et al Acres 27,435 .67
Well No	21	Elev. 1042 103 1189 4 0
District	Ripley	Jackson County 85/8 2315' 2315'
Surface Mineral	P.C. Greene,	Kenna, W.Va. 7 5242' 5242'
werede of		erkins et al 2 3/8 5362' Ley, Att'y, 1101 Union Bldg.
	Charleston, T	
Commenced Completed	Oct. 21,1942	Casing cemented:
Completed Date shot	Feb. 23,1943 Feb. 23,1943	8 5/8" 552'- 12-23-42 Depth 5339-5369 7" 2-4-43
	with 60 qts.	glycerine
Open Flow Volume	12/10ths M ir	1.7° 24#
Rock Pressure	5,406,000 C.F 1470 lbs. 24	
Salt Water		pr. hr.; 1790 H.F.
Slate Red Rock	14 40 40 110	Lime H 3960 4010
Slate & Shells	40 110 110 180	Slate & Shells 4010 4120 Brown Shale 4120 4200
Lime	180 200	Slate & Shells 4200 4250
Red Rock Sand	2 00 230 230 295	Shale Grown 4250 4290
Red Rock	295 340	Slate & Shells 429 0 4330 Shale Prown 4330 4480
Sand	340 370	Slate White 4480 4915
Red Rock Slate & Shells	370 435 435 450	Shale 4915 5228
Red Rock	450 475	- Corniferous Lime - 5228 5333 Oriskany Sand 5333 5371
Slate & Shells	475 512	Lime - 100 5371
Red Rock Slate &Shells	512 560 560 670	TOTAL DEPTH 485
Sand	670 717	Gas 5339' Show No test
Slate	717 721	
Sand Slate	721 730 730 753	TEST DEFORE SHOT: 5340' 48/10 W in 2" 282 MCF
Red Rock	753 775	5343'100/10 W in 2" 421 MCF
Slate Red Rock	775 805	5345' 80/10 W in 2" 377 MCF
ned nock Slate & Shells	805 865 865 945	5348' 2/10 W in 7" 22# 610 MCF 53 5 1' 4/10 W in 7" 22# 862 MCF
Sand	945 970	5363' 3/10 W in 2" 22# 747 MCF
Red Rock Sand	970 990	5364' 10/10 W in 2" 22# 1,364 MCF
Slate & Shells	990 1035 1035 1075	53653 20/10 W in 2"22# 1,929 MOF 5377' 12/10 W in 2" 24# 1,465 MCF
Sand	1075 1095	oo Lo, Lo n in a siff it too mor
Lime Sand	1095 1131 1131 1155	RECORD OF SHOT
Slate	1131 1155 1155 1158	Shot with 60 qts. Glycerine from 5339 to 5369 with 3 $3\frac{1}{2}$ shells on 8
Lime H	1158 1180	Anchor.
Slate Sand	1180 1245 1245 1300	TEST AFTER SHOT
Slate & Shells	1300 1350	First 10 Mins. 16/10 M 7" 24# 6,245 MCF " 15 Mins. 14/10 M 7" 24# 5,840 MCF
Sand	1350 1420	" 20 Mins. 14/10 M 7" 24# 5.840 MCF
Slate Lime	1420 143 5 .1435 1475	" 25 Mins. 12/10 M 7" 24# 5,406 MCF
Sand	1475 1505	" 30 Mins. 12/10 M 7" 24# 5,406 MCF " 35 Mins. 12/10 M 7" 24# 5,406 MCF
Slate & Shells Lime H	1505 1665	" 40 Mins. 12/10 M 7" 23# 5,406 MCF
Sand	1665 1692 1692 1717	" 45 Mins. 12/10 M 7" 24# 5,406 MCF
Slate	1717 1728	5000 5233 (371
Lime Salt Sand	1728 1760	5228 5333 5371 104~ 104~ 104~ 4186 4291 4329
Dig Lime	1760 2120 2120 2152	4.96 4291 4329
"Injun Sand)	2152 2197	41 00 10 10 10 10 10 10 10 10 10 10 10 10
Slate Injun Sand	2197 2201 2201 2235	
Slate & Shells	2201 2235 2235 3 8 70	
Brown Shale-44	3870 3960	

WR-38	
DATE: 15	\$p\$-2007 €
	2007
The Court of	partment of protection

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION SECTION OF OIL AND GAS

AP1-#47-035-0406-P

AFFIDAVIT OF PLUGGING AND FILLING WELL

Depart Projection		•••	the first section of		
AFFIDAVIT SHOULD Operator and the third	CODY (and extra c	IE, one copy mailed	d to the Division, or ould be mailed to ea	ie copy to be i	retained by the Well
addresses.	copy (and extra t			·	:
Farm name:	James Burdette	e Op	erator Well No.:	Derkin 21	
LOCATION:	Elevation: 103	37" Qu	adrangle: Kenna		The state of the s
	District:	Ripley	County:	Jackson	and the second s
	Latitude:	Feet South of	Deg. Min. 00		,
	Longitude:	Feet West of	Deg. Min. 00	Sec.	
Well Type:	OIL ·	GAS XX	XX	~	
Company:	Equitable Produ	uction Company	Coal Operator	James Burdet	te
	1710 Pennsylva		or owner	Route 1 Box 1	
	Charleston, WV	/ 25302		Leroy, WV 25	
Agent:	Steve G. Perdu	e	Coal Operator	N/A	
			or owner		
Permit Issued Date:	8/09/05				
~~~ ~~~ ~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~		AFFIDAVIT			
STATE OF WEST VIR	•				
County of Doddr	lade	SS:		•	
luctin	Meadows and	Jason Meadows	heina	first duly swo	rn according to law
		Gason Micagons		III OF AALO	ili accoldina to lavv
depose and say that the	hey are experienc	ced in the work of pl	ugging and filling oil	and gas wells	and were employed
depose and say that the y the above named w	hey are experience rell operator, and	ced in the work of placed in the wo	ugging and filling oil ork of plugging and f	and gas wells illing the above	and were employed well, and <u>Larry</u>
depose and say that the y the above named warrish Oil and Gas I	hey are experience rell operator, and inspector represer	ced in the work of plop participated in the wo nting the Director, sa	ugging and filling oil ork of plugging and f ly that said work was	and gas wells filling the above s commenced o	and were employed well, and <u>Larry</u>
depose and say that the young the above named warmsh_Oil and Gas I	hey are experience rell operator, and inspector represer	ced in the work of plop participated in the wo nting the Director, sa	ugging and filling oil ork of plugging and f ly that said work was	and gas wells filling the above s commenced o	and were employed well, and <u>Larry</u>
depose and say that the young the above named was leaded and Gas I	hey are experience rell operator, and inspector represer	ced in the work of plop participated in the wo nting the Director, sa	ugging and filling oil ork of plugging and f ly that said work was	and gas wells filling the above s commenced of manner:	and were employed well, and <u>Larry</u>
depose and say that the street of the above named we can be above named we can be above named with the above named and an arrangement of the above named and arrangement arrangement of the arrangement of	hey are experience rell operator, and nspector represerand that the we	ced in the work of ploparticipated in the wonting the Director, sall was plugged and	ugging and filling oil ork of plugging and fing that said work was filled in the following	and gas wells filling the above s commenced of manner:	and were employed well, and <u>Larry</u> on the <u>21st</u>
depose and say that the street of the above named we can be above named we can be above named to the street of the	hey are experience rell operator, and inspector represer and that the well FROM	ced in the work of ploparticipated in the wonting the Director, sall was plugged and	ugging and filling oil ork of plugging and fing that said work was filled in the following	and gas wells filling the above s commenced of manner:	and were employed well, and Larry on the 21 st
depose and say that the street of the above named we can be above named we can be above named with the street of the same of the street of the same of	hey are experience rell operator, and inspector represer and that the well FROM 5377'	ced in the work of ploparticipated in the wonting the Director, sall was plugged and TO 4883'	ugging and filling oil ork of plugging and fay that said work was filled in the following  PIPE REMO 2" 5377' 7" 2654'	and gas wells filling the above s commenced of manner:	and were employed well, and Larry on the 21st LEFT
depose and say that the young the above named we warrish Oil and Gas I day of March .2007  TYPE  Cement  Cement	hey are experience rell operator, and inspector represertand that the western FROM 5377' 2960'	ced in the work of planticipated in the working the Director, salell was plugged and to the total tota	ugging and filling oil ork of plugging and fay that said work was filled in the following  PIPE REMO 2" 5377' 7" 2654' 8" 817'	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588'
depose and say that the street of the above named we will and Gas I day of March .2007  TYPE  Cement  Cement  Cement  Cement  Cement  Cement  Cement	rely are experience rell operator, and inspector represer and that the western relationship is a second relation of the relation of t	ced in the work of planticipated in the working the Director, sall was plugged and to the sall was plugged and the sall	ugging and filling oil ork of plugging and fill ork of plugging and fill of the following o	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588'
depose and say that the street of the above named we will and Gas I day of March .2007  TYPE  Cement  Cement  Cement  Cement  Cement	rey are experience rell operator, and inspector represer and that the western represervation and the represervation represerva	ced in the work of planticipated in the work of planticipated in the work of planting the Director, salell was plugged and solution of the planting the Director, salell was plugged and solution of the planting the planting that	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 ¾ " none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588'
depose and say that the yold the above named we warrish Oil and Gas I day of March .2007  TYPE  Cement	rely are experience rell operator, and inspector represer and that the west relationship is a second relation of the relation of the relationship is a second relation of the relationship is a second relation of the relation of the relationship is a second relation of the relation of the relationship is a second relation of the relation of the relationship is a second relation of the	ced in the work of planticipated in the working the Director, sall was plugged and to the sall was plugged and the sall	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 ¾ " none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588'
depose and say that the yold the above named work arish Oil and Gas I day of March .2007  TYPE  Cement	rey are experience rell operator, and inspector represer and that the west states of the second states of the seco	ced in the work of planticipated in the work of planticipated in the work of planting the Director, salell was plugged and salell was plu	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 3/4 " none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588'
depose and say that the street of the above named we warmsh Oil and Gas I day of March .2007  TYPE  Cement	rely are experience rell operator, and inspector represer and that the west relations are represerded by the relationship of t	ced in the work of planticipated in the work of planticipated in the work of planting the Director, salell was plugged and salell was plu	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 3/4 " none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588'
depose and say that the street of the street	rely are experience rell operator, and inspector represer and that the west relations are represerded by the relationship of t	ced in the work of planticipated in the work of planticipated in the work of planting the Director, salell was plugged and salell was plu	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 3/4 " none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588'
depose and say that the street of the above named we warrish Oil and Gas I day of March .2007  TYPE Cement	rely are experience rell operator, and inspector represer and that the west relations are represerded by the relationship of t	ced in the work of planticipated in the work of planticipated in the work of planting the Director, salell was plugged and salell was plu	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 3/4 " none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588'
depose and say that the street of the above named we sarrish Oil and Gas I day of March .2007  TYPE  Cement	rey are experience rell operator, and inspector represer and that the west represervation in the second represervation represervation in the second represervation represervation represervation represerv	ced in the work of planticipated in the wonting the Director, sall was plugged and sall was p	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 ¾ " none in well 13" none in well 16" none in well	and gas wells filling the above sommenced of manner.	and were employed well, and Larry on the 21st 0 2588' 1498'
depose and say that the street of the above named we same and say that the street of the above named we same and say of March .2007  TYPE  Cement  Description of	rey are experience rell operator, and respector represer and that the west represers represerving represer	ced in the work of planticipated in the work of planticipated in the work of planting the Director, sall was plugged and sall was plugged and sall was plugged and sall was plugged and sall sall sall sall sall sall sall sal	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 ¾ " none in well 16" none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21 st LEFT  0 2588' 1498'
depose and say that the street of the above named we same and say that the street of the above named we same and say of March .2007  TYPE  Cement  Description of	rey are experience rell operator, and respector represer and that the west represers represerving represer	ced in the work of planticipated in the work of planticipated in the work of planting the Director, sall was plugged and sall was plugged and sall was plugged and sall was plugged and sall sall sall sall sall sall sall sal	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 ¾ " none in well 16" none in well 16" none in well	and gas wells filling the above sommenced of manner.	and were employed well, and Larry on the 21 st LEFT  0 2588' 1498'
depose and say that the younger of the above named we warrish Oil and Gas I day of March .2007  TYPE  Cement	rely are experience rell operator, and inspector represer and that the west states of the second states of the sec	ced in the work of planticipated in the work of planticipated in the work of planting the Director, sall was plugged and sall was plugged and sall was plugged and sall was plugged and sall sall sall sall sall sall sall sal	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 ¾ " none in well 16" none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21st    LEFT   0   2588'   1498'
depose and say that the younger of the above named work of plugging and fill you the above named work of plugging and fill you the above named work of plugging and fill you the above named to the above name of	rely are experience rell operator, and inspector represer and that the west states of the second states of the sec	ced in the work of planticipated in the work of planticipated in the work of planting the Director, sall was plugged and sall was plugged and sall was plugged and sall was plugged and sall sall sall sall sall sall sall sal	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 ¾ " none in well 16" none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21st    LEFT   0   2588'   1498'
depose and say that the younger than the above named would be above named would be above named would be above named work of plugging and first the above named to the above name and the above name above name and the above name and the above name and the above n	rely are experience rell operator, and inspector represer and that the wear safe in the second secon	red in the work of planticipated in the work	ugging and filling oil ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 3/4 " none in well 13" none in well 16" none in well eee	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21st    LEFT   0   2588'   1498'    and that the 2007
depose and say that the younger of the above named we arrish Oil and Gas I day of March .2007  TYPE Cement Active Description of work of plugging and file And further deponents Sworn and subscribe to	rely are experience rell operator, and rell operator, and respector represer and that the west relieves and that the west relieves represer and that the west relieves relieves relieves represerving relieves rel	red in the work of planticipated in the work	ugging and filling oil ork of plugging and fill ork of plugging and fill ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 ¾ " none in well 16" none in well 16" none in well	and gas wells filling the above s commenced of manner:  VED	and were employed e well, and Larry on the 21st    LEFT   0   2588'   1498'
depose and say that the younger of the above named we arrish Oil and Gas I day of March .2007  TYPE Cement Active Description of work of plugging and file And further deponents Sworn and subscribe to	rely are experience rell operator, and rell operator, and respector represer and that the west relieves and that the west relieves represer and that the west relieves relieves relieves represerving relieves rel	red in the work of planticipated in the work	ugging and filling oil ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 3/4 " none in well 13" none in well 16" none in well eee	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21st    LEFT   0   2588'   1498'    and that the 2007
depose and say that the younger of the above named we arrish Oil and Gas I day of March .2007  TYPE Cement And further deponents Sworn and subscribe to	rely are experience rell operator, and rell operator, and respector represer and that the west relieves and that the west relieves represer and that the west relieves relieves relieves represerving relieves rel	red in the work of planticipated in the work	ugging and filling oil ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 3/4 " none in well 13" none in well 16" none in well eee	and gas wells filling the above s commenced of manner:  VED	and were employed well, and Larry on the 21st    LEFT   0   2588'   1498'    and that the 2007
depose and say that the younger of the above named we arrish Oil and Gas I day of March .2007  TYPE  Cement Cement Cement Cement Cement Cement Cement Cement Gement Cement Cement And further deponents Sworn and subscribe to My commission expire	rely are experience rell operator, and rell operator, and respector represer and that the west state of the second state of th	red in the work of planticipated in the work	ugging and filling oil ork of plugging and fill ork of plugging and filling in the following  PIPE REMO  2" 5377' 7" 2654' 8" 817' 10 % "none in well 13" none in well 16" none in well ee	and gas wells filling the above sommenced of manner:  VED  Leided on it day of April.	and were employed well, and Larry on the 21st    LEFT   0   2588'   1498'    and that the 2007
depose and say that the younger of the above named we arrish Oil and Gas I day of March .2007  TYPE Cement Active Description of work of plugging and file And further deponents Sworn and subscribe to	rely are experience rell operator, and rell operator, and respector represer and that the west state of the second state of th	red in the work of planticipated in the work	ugging and filling oil ork of plugging and fill of the following  PIPE REMO 2" 5377' 7" 2654' 8" 817' 10 3/4 " none in well 13" none in well 16" none in well eee	and gas wells filling the above sommenced of manner:  VED  Leided on it day of April.	and were employed well, and Larry on the 21st    LEFT   0   2588'   1498'    and that the 2007
depose and say that the younger of the above named we warrish Oil and Gas I day of March .2007  TYPE  Cement Cement Cement Cement Cement Cement Cement Cement Gement Cement Cemen	rely are experience rell operator, and rell operator, and respector represer and that the west sample of the second secon	red in the work of planticipated in the work	ugging and filling oil ork of plugging and fill ork of plugging and filling in the following  PIPE REMO  2" 5377' 7" 2654' 8" 817' 10 % "none in well 13" none in well 16" none in well ee	and gas wells filling the above sommenced of manner:  VED  Leided on it day of April.	and were employed well, and Larry on the 21st    LEFT   0   2588'   1498'    and that the 2007