WR-35 Rev. 8/23/13

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API <u>47</u> - 077 _ 00022	County Preston	Γ	istrict Union	
Quad Sinks of Gandy		Alta F	ield/Pool Name _T	erra Alta
Farm name "BERNADETTE CO	LE, ET AL"		Well Number 739)4
Operator (as registered with the OC	OG) Columbia Gas Trar	nsmission LLC		
Address 1700 MacCorkle Ave	SE City Cha		State WV	Zip 25314
As Drilled location NAD 83/UT Top hole Landing Point of Curve Bottom Hole	Northing Not applicable Northing	Eastii Eastii	ng ng ng	——————————————————————————————————————
Elevation (ft) 2127.7 GI			Type of Report	: □Interim
Permit Type Deviated	Horizontal Horizont	al 6A 💄 Vertical	Depth Type	■ Deep □ Shallov
Type of Operation Convert	□ Deepen □ Drill □	Plug Back □ Redrill	ing ■ Rework	□ Stimulate
Well Type □ Brine Disposal □ C	BM □ Gas □ Oil □ Seco	ondary Recovery	ution Mining 📱 St	torage □ Other
Drilled with □ Cable □ Rotary Drilling Media Surface hole □ Production hole □ Air □ Mud Mud Type(s) and Additive(s) N/A. SOW rework existing we	Air □ Mud □Fresh Wat □ Fresh Water □ Brine II - perform a freshwate	er treat. Coil tubing o		d □ Fresh Water □ Brin
was not performed due to favo	orable results from FW	treatment.		
Date permit issued09/26/202	N/A	Date completion activ		N/A
Verbal plugging (Y/N)N/A	_ Date permission granted	N/A	Granted by	N/A
Please note: Operator is required to	submit a plugging applica	tion within 5 days of ve	bal permission to p	blug
Freshwater depth(s) ft	200', 535'	Open mine(s) (Y/N) de	oths	N
Salt water depth(s) ftnor		Void(s) encountered (Y		N
Coal depth(s) ft none	e reported	Cavern(s) encountered	(Y/N) depths	N
Is coal being mined in area (Y/N)	N			

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API 47- 077	_ 00022	Farm nai	ne_"BERNA	DETTE C	OLE, ET	AL" Well m	ımber_7394	4
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		sket oth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor		existing well						
Surface								
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								
Production					-			
Tubing								
Packer type and d	epth set				l			
Comment Details								
CEMENT DATA	Class/Type of Cement		Slurr wt (pp	y Y og) (fi	Yield Volume (ft 3/sks) (ft		Cemen Top (Mi	
Conductor		existing w	eli					
Surface								
Coal								
Intermediate 1								
Intermediate 2								
Intermediate 3								
Production								
Tubing								
Drillers TD (ft Deepest forma Plug back pro	tion penetrated			Loggers T Plug back				
Kick off depth								
Check all wire	line logs run	□ caliper □ neutron	□ density □ resistivity		ed/directio a ray		ection perature	□sonic
Well cored	Yes 🗆 No	Convention	nal Sidev	wall	We	re cuttings co	ollected 🗆	Yes □ No
DESCRIBE T	HE CENTRAL	IZER PLACEME	NT USED FO	R EACH CA	ASING ST	RING N/A	· · · · · · · · · · · · · · · · · · ·	
WAS WELL C	COMPLETED	AS SHOT HOLE	□ Yes □	No DE	TAILS !	N/A		
WAS WELL C	COMPLETED	OPEN HOLE?	□ Yes □ No	o DETA	AILS N/A			
WERE TRACE	ERS USED	ı Yes □ No	TYPE OF T	RACER(S) I	ISED N/A			

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API 47- 077 - 00022	Farm name_"BERNADETTE COLE, ET AL"_Well number_7394	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	N/A	existing well			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
		144 (51111)	1100011 (101)	11000010 (101)	1011 (101)	110000000		
———					·			
<u></u>								

Please insert additional pages as applicable.

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API 47- 077	_ 00022		Farm	name_	"BERNA	ADETTE	COL	E, ET AL	"Well 1	number_	7394			
PRODUCING	FORMAT	ION(S)		DEPT	2H°									
	TORWAT	IOIN(S)												
Chert				4987 -	5058	TVD			MD					
Please insert ac	lditional pa	ges as a												
	•			0	T)		OH	TEGT -	D1	. D				
GAS TEST	□ Build uj	o D	rawdown	□Ор	en Flow		OIL	LIESI 🗆	Flow [Pump				
SHUT-IN PRE	SSURE	Surfac	e	psi	Botto	om Hole		psi	DURAT	CION O	F TEST	Γ	hrs	
OPEN FLOW	Gas	mcfpd	Oil		NGL	_ bpd	Wa	nter bpd	GAS N				Pilot	
LITHOLOGY/ FORMATION	TOP DEPTH IN		BOTTOM DEPTH IN FT		TOP TH IN FT	BOTTO:		DESCRIBE	POCK TVI	DE AND E	RECORT	OHANT	TVAND	
FORMATION	NAME T		TVD		MD	MD	(11						AS, H_2S, ET	C)
existing well	0				0									
				-										
-														
		-		1										
Please insert ad	lditional pa	ges as a	pplicable.											
Drilling Contra	ctor													
Address									State		_ Zip _			_
Logging Comp	anv													
Address					City				State		Zip			
														_
Cementing Cor Address 736 W	npany <u>and</u> Ingomar Rd,	Units 268	B Next L	V L	City	Ingomar			State	PA	Zip	15127-66	313	
Cairmal-air C						-					_ • _			
Stimulating Co.							_		Stata		7in			
Address Please insert ad					_ City				_ State		_ z.ip _			_
			•											
Completed by	//	/			TO T	eam Lead, V		Telephone			130124			
Signature	Whit	7. 6			Title _	cam Leau, V	A CII E	ig a recir		Date 12	130124		-	