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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NOV 16 2012

FORM APPROVED OMB No. 1004-0137 Expires: July 31, 2010

	well completion or recompletion report and log Farmington Field Office										5. Lease Serial No. SF-078097		
			Tul o w	. 1	15	11015							
Type of Well Type of Completion	completion: X New Well Work Over Deepen Plug Back Diff. Resvr.,												
		Other:									7. Unit or CA Agreement Name and No.		
2. Name of Operator	-	8. Lease Name and Well No.											
	•	Heaton LS 1M											
3. Address	PO Box 4289. Farmi	9. API Well No. 30-045-35337 ~ 60 € 1											
PO Box 4289, Farmington, NM 87499 (505) 326-9700 4. Location of Well (Report location clearly and in accordance with Federal requirements)*										or Exploratory			
At surface UNIT O (SW/SE), 625' FSL & 1308' FEL										Basin Dake L, on Block and Su			
A CONTROL CONT										URFACE: SEC: 2 OTTOM: SEC: 2	8, T31N, R11W		
At top prod. Interva	al reported below	12. County or Par		13. State									
At total depth	•	San	Juan	New Mexico									
14. Date Spudded	- 	15. Dat	te T.D. Reached			& 692' FEL Completed	17. Elevations (DF, RKB, RT, GL)*						
	9/6/2012		9/28/201			D&A		to Prod. 10/31/12 GRS	5880' GL / 5895' KB				
18. Total Depth:	MD TVD ·	714: - 704	7'	Plug Back T.I	J.: <i>*</i>	MD TVD	7133' 7037'	20. Depth Bridge Plug S	et: 	MD TVD			
21. Type Electric & C	other Mechanical Logs Ru	n (Submit co	py of each)					22. Was well cored?		X No	Yes (Submit analysis)		
		(GR/CCL/CBL		*		, .	Was DST run?		X No	Yes (Submit report)		
							2	Directional Survey	? :.	No X	Yes (Submit copy)		
23. Casing and Liner	Record (Report all strings	set in well)						'					
Hole Size	Size/Grade	Wt. (#/ft.) Тор (М	D)	Bottom (MD)	Stage (Cementer	No. of Sks. &	Slurry Vol.	Cement top*	Amount Pulled		
Hole Size) Top (W			. D	epth ·	Type of Cement	(BBL)	Cement top	Amount Fulled		
12 1/4"	9 5/8" / H-40	32.3#	0		230'		1/a .	76sx-Type I-II	22bbls	Surface	8bbls		
8 3/4"	. '7" /'J-55	23#		0 4499'			1/a	576sx-Premuim Lite	204bbls	Surface	55bbls		
6 1/4"	- 4 1/2" / L-80 11.6#		0		7135'		1/a	202sx-Premuim Lite	73bbls	3700'	n/a		
									- KUVL	MOV 28	42		
·								·	- OIL	CONS. DI	3		
24. Tubing Record		l			~								
Size ·	Depth Set (MD)	Pac	ker Depth (MD)	Si	ze	Depth Set (MI	0)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)		
2 3/8", 4.7#, L-80	7031'		n/a										
25. Producing Interval				<u> </u>	26.	. Perforation R							
	Formation	·	Тор	Bot		· · · · · · · · · · · · · · · · · · ·	Perforated		Size	No. Holes	Perf. Status		
A)	Daktoa		6960'	70			1SPI		34"	36	open		
B)	Daktoa Total		7078'	7078' 7106'		•	2SPI		.34"	56	open		
D)	10131			1.		·····			 	50			
	eatment, Cement Squeeze,	etc.	'					·	· <u></u>				
	Depth Interval					· · ·	Ā	mount and Type of Material		· · · · · · · · · · · · · · · · · · ·			
			Acidize w/ 10	bbls of 15%	HCL. Frac'	d w/ 40,530gals		20/40 Arizona sand. Pumpe	ed 107bbls of fluid.	Total N2:2,114,000	SCF.		
	6960' - 7106'	•	•		•	-	•						
			-			,			-	• • •			
			:.					· · · · · · · · · · · · · · · · · · ·	-				
			1						-				
28. Production - Inter	val A												
Date First	Test Date .	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production M	lethod .			
Produced	i ,	Tested	Production	BBL.	MCF	BBL	Corr. API	Gravity		•			
•			CHARACTE S						1	*			
10/31/2012 GRS	11/5/2012	1hr.		0/boph	24/mcf/h			n/a		FLOWI	NG		
Choke	Tbg. Press.	1	24 Hr.	Oil	Gas	Water BBL	Gas/Oil	· Well Status			•		
Size	Flwg.	Press.	Rate	BBL	MCF _	BBL	Ratio						
1/2"	SI-617psi	SI-522psi	THE PARTY OF THE P	0/bopd	584/mcf/e		n/a			IUT IN	-		
28a. Production - Interval B													
Date First " "	Test Date	Hours	Test	Oil :	Gas	Water	Oil Gravity	Gas	Production N	fethod			
Produced	· .	Tested	Production	BBL	MCF	BBL	Corr. API	Gravity	\				
			CIEROS I	,]								
Choke	Tbg. Press.	Csg.	24 Hr.	Oil	Gas	Water-	Gas/Oil ·	Well Status					
Size	Flwg.		Rate	BBL	MCF	BBL	Ratio						
	sı		Carriera		1			· [·					
											<u> </u>		
*(See instructions and	spaces for additional data	on page 2)						-					

ACCEPTED FOR RECORD

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20h. D. 1	Inter1	-1			•						
28b* Production Date First	Test Date		Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced Test Date		1	Tested	Production	BBL	MCF	BBL	Corr. API	Gravity		
				HATTER STATES		· ·					•
Choke	Tbg. Press		Csg.	24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status		
Size	Flwg.		esg. Press.	Rate	BBL	MCF	BBL	Ratio	Wen States		•
	SI			THE STEER		ŀ	∤	\			
	<u> </u>						<u> </u>			· · · · · · · · · · · · · · · · · · ·	
28c. Production	Test Date		Hours	Test	Oíl	Gas	Water	Oil Gravity	Gas	Production Method	· · · · ·
Produced	Test Date	Tes		Production	BBL	MCF	BBL	Cort. API	Gravity	,	
			ĺ		. .						
· ·	7th a Duna		Chr	24 Hr.	0:1	Can	Water	Gas/Oil	Mall Castro	<u></u>	
Choke Size	Tbg. Pres Flwg.		Csg. Press.	Rate	. Oil BBL	Gas MCF	Water BBL	Ratio	Well Status		
	SI]			.						
	1										
29. Disposition	of Gas (So	lid, used j	for fuel,	vented, etc.)							***
		• •					TO B	E SOLD			
30. Summary c	f Porous Zo	ones (Inch	ude Aqui	fers):					31. Formati	on (Log) Markers	
										,	
		•	- ,	ontents thereof: ed, time tool oper				•			•
recoveries.		icsicu, cu	Smon usc	u, time joor oper	i, nowing ar	ia suacim bi	essures and			•	
									·		
							•				
Formation		Тор		Bottom	Descriptions, Contents, etc.					Name	Тор
Formatic	711			, Dottom		Descrip	mons, com	ints, etc.		Name	Meas. Depth
Ojo Alan	10	- 824'		878'			White, cr-gr s	is .		Ojo Alamo	824'
Kirltano	i	878'		2063'		Gry sh interbe	edded w/tight,	gry, fine-gr ss.		Kirltand	878'
Fruitlan	- l	2063'	-	2503'	Dk orv-orv	carb sh coal	arn eilte liaht	t-med gry, tight, fine g	ar ec	Fruitland	2063'
	Pictured Cliffs			2644'	Dr. 517 517		iry, fine grn, ti		gr 33.	Pictured Cliffs	2503'
Lewis			ŀ	3258'			: w/ siltstone s	_		Lewis	2644
Huerfanito Bo	ntonite	3258'		3598'		White,	waxy chalky l	pentonite	1	Huerfanito Bentonite	3258'
								-			•
		3598'		0	Gry f			one w/ drk gry shale		Chacra	3598'
Mesa Verde		ŀ		4344'		Light gry, m	ed-fine gr ss, o	carb sh & coal	- 1	Mesa Verde	. 0
Menefe	e	4344'		4819'	_	Med-dark gi	ry, fine gr ss, o	earb sh & coal	1	Menefee	4344'
Point Lool	cout	4819' 5194'		5194'	Med-light gr	y, very fine g	r ss w/ frequer formation	nt sh breaks in lower p	part of	Point Lookout-	. 4819'
Manco				6099'		г	Dark gry carb	ch.		Mancos	5194'
11111100	'	3171		00,,	Lt. gry to b			s & very fine gry gry	ss w/	Mancos	
Gallup		6099'		6853'	irreg. interbed sh.					Gailup	6099'
Greenho		6853'		6907'	Highly calc gry sh w/ thin Imst.					Greenhorn	6853'
Granero	s	6907'		6959'	I t to dark or			w/ pyrite incl. w/ pyrite incl thin sh	hands	Graneros	6907'
. Dakota	ı	6959'			Li to durk gi		ly Y shale brea		ounds	Dakota	6959'
Morriso					Interbed grn, brn & red waxy sh & fine to coard grn ss					Morrison	
32. Additional	remarks (in	iclude plu	gging pro		a Blanco I	Masayarda	& Pasin Da	nkota commingle	COHO noben llow	71747	
	•				, a Dianco	nesaverue .	& Dasin Da	ikuta commingie	wen under DHC3	· · ·	
				·						. •	
											•
•			•								
									-		•
									-		
33 Indicate w	hich items h	nave been	attached	by placing a che	ck in the an	propriate bo	xes:	-	- .	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
33. maioate w	men noms n	iave occir	unaonea	o) piaom _B a ono	·	·	ACS.		•		•
X Electrica	l/Mechanic	al Logs (1	l full set	req'd.)		· Geo	ologic Repoi	t 🗌	DST Report	Directional Surv	ey
Sundry 1	Votice for p	lugging a	nd cemen	t verification		Cor	e Analysis		Other:		·
34. I hereby co	ertify that th	e foregoi	ng and at	tached information	n is comple	te and corre	ct as determ	nined from all avail	able records (see a	attached instructions)*	
•	-	-							- (
Name	(please pri	nı)	`	Arlo	en Kellywo	ood		Title	 	Staff Regulatory Tech.	
Signat	ure	()	Vrlee	en Kel	lixiv	vd		Date	11/16/1	2	
Digital	_				0						
Title 18119C	Section 10	T bins 10	itle 43 11	S.C. Section 121	2. make it a	crime for a	ny person b	nowingly and willfi	ully to make to am	department or agency of the Unite	ed States any
				presentations as t						,	YC

(Continued on page 3) (Form 3160-4, page 2)

UNITED STATES DEPARTMENT OF THE INTERIOR

RECEIVED

FORM APPROVED OMB No. 1004-0137

BUREAU OF LAND MANAGEMENT Expires: July 31, 2010 WELL COMPLETION OR RECOMPLETION REPORT AND DAYS 16 2012 5. Lease Serial No SE-078097 Other Farmington Field Office 6. If Indian, Allottee or Tribe Name X Gas Well Dry 1a. Type of Well Oil Well Work Over Deepen b. Type of Completion: New Well Pleasteau of Lary Managemen Unit or CA Agreement Name and No. Regard 8. Lease Name and Well No Other to leas 2. Name of Operator ConocoPhillips Company Heaton LS 1M 3a. Phone No. (include area code) 9. API Well No. 3. Address 30-045-35337 - 00C2 PO Box 4289, Farmington, NM 87499 (505) 326-9700 10. Field and Pool or Exploratory 4. Location of Well (Report location clearly and in accordance with Federal requirements) Blanco Mesaverde UNIT O (SW/SE), 625' FSL & 1308' FEL 11. Sec., T., R., M., on Block and Survey At surface SURFACE: SEC: 28, T31N, R11W BOTTOM: SEC: 28, T31N, R11W UNIT P (SE/SE), 724' FSL & 692' FEL At top prod. Interval reported below 12. County or Parish UNIT P (SE/SE), 724' FSL & 692' FEL New Mexico At total depth San Juan 15. Date T.D. Reached 16. Date Completed 17. Elevations (DF, RKB, RT, GL)* 14. Date Spudded 9/28/2012 7 D & A X Ready to Prod. .10/30/12 GRS 5880' GL / 5895' KB 9/6/2012 19. Plug Back T.D. MD 7133' 20. Depth Bridge Plug Set 18. Total Depth: MD 7143 MD TVD 7047 TVD 7037 TVD Was well cored? X No Yes (Submit analysis) 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) X No GR/CCL/CBL Was DST run? Yes (Submit report) X Directional Survey No Yes (Submit copy) 23. Casing and Liner Record (Report all strings set in well) Stage Cementer No. of Sks. & Slurry Vol. Hole Size Size/Grade Wt. (#/ft.) Top (MD) Bottom (MD) Cement top⁴ Amount Pulled Depth Type of Cement (BBL) 230 8bbls 12 1/4' 9 5/8" / H-40 32.3# n/a 76sx-Type I-II 22bbls Surface 4499 576sx-Premuim Lite 204bbls 55bbls 7" / J-55 23# Surface 8 3/4" 0 n/a 3700' 6 1/4" 4 1/2" / L-80 11.6# 0 7135 n/a 202sx-Premuim Lite 73bbls n/a RCVD NOV 28 ' 24. Tubing Record Depth Set (MD) Packer Depth (MD) Size Depth Set (MD) Packer Depth (MD) Size Packer Depth (MD) Size 2 3/8", 4.7#, L-80 7031 n/a Perforation Record 25. Producing Intervals Perforated Interval Formation Top Bottom Size No. Holes Perf. Status A) Point Lookon 4821 5099' 1SPF .34" 25 open B) Menefee 4499 4756' 1SPF .34" 25 open C) Total D) 27: Acid, Fracture, Treatment, Cement Squeeze, etc. Depth Interval Amount and Type of Material Acidize w/ 10bbls of 15% HCL. Frac'd w/ 37,842gal 70Q N2 Slick Water w/ 100,034# of 20/40 Arizona sand. Pumped 75bbls of fluid, Total N2:1,258,000SCF. 4821' - 5099' Acidize w/ 10bbls of 15% HCL. Frac'd w/ 24,738gal 70Q N2 Slick Water w/ 43,309# of 20/40 Arizona sand. Pumped 69bbls of fluid. Total N2:995,000SCF. 4499' - 4756' 28. Production - Interval A Oil Gravity Water Gas Production Method Date First Test Date Hours Test lOit Gas BBI. Production BRI. MCF Corr API Gravity Produced Tested STEEL SECTION 10/30/2012 GRS 11/5/2012 0/beph 34/mcf/h trace/bwpl FLOWING

*(See instructions and spaces for additional data on page 2)

Tbg. Press.

Flwg

SI

Tbg. Press.

Test Date

SI-617psi

Flwg.

Choke

Date First

Produced

Choke

Size

1/2"

28a. Production - Interval B

Size

24 Hr.

Rate

Test

24 Hr.

Rate

THE REAL PROPERTY.

Production CHAPTER S

F.WA

Csg.

Press

Hours

Tested

Csg.

Press

SI-522nsi

Oil

BBL

Oil

BBL

Oil

BBL

0/bopd

Gas

MCF

Gas

MCF

Gas

MCF

806/mcf/d

Water

BBL

Water

BBL

Water

6/ bwpd

Gas/Oil

Oil Gravity

Corr. API

Gas/Oil

Ratio

n/a

Ratio

Well Status

Gas

Gravity

Well Status

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Production Method

NOV 2 6 2012 FARMINGTON FIELD OFFICE BY Ti Salvers



				·			·				
28b. Production			11	ITt	loa	lCe-	Weter	Oil Gravity	Gas	Draduction Mathed	
l l		Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Corr. API	Gravity	Production Method		
rioduced			rested		BBL	IVICI	BBL	Con. Art	Ciavity	· .	•
										•	
Choke	Tbg. Pr	ess.	Csg.	24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status		1. 3
Size	Flwg.		Press.	Rate	BBL	MCF	BBL	Ratio			
SI								· .	•		
28c, Production - Interval D											
Date First	Test Da		Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
1		Tested	Production	BBL	MCF	BBL	Corr. API	Gravity	Troduction without	•	
Todaloca					1555	101		00.1	Cranty	· ,	
											•
Choke	Tbg. Pı	ess.	Csg.	24 Hr.	Oil	Gas	Water	Gas/Oil	Well Status		
			Press.	Rate	BBL	MCF	BBL	Ratio			•
	SI		1	PR. 43			-	·	٠.		•
29. Disposition	of Gar. (Solid usad	for fuel	vantad atc 1						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
. Disposition	or Gas p	Jona, asca	joi juei,	emed, etc.)							
	•						то ве	E SOLD			• •
30. Summary o	f Porous	Zones (Inc	luđe Aqui	fers):		•	-		31. Formatio	n (Log) Markers	
				ontents thereof:				st, · ·	' '	,	
	oth interv	al tested, c	ushion use	ed, time tool oper	i, flowing ai	nd shut-in pr	essures and	•			
, recoveries.	•									•	
					Г <u>.</u>	•			 		Тор
Formatio	n	. Тор		Bottom		Descrip	tions, Conte	ents, etc.	. Name		Meas. Depth
		,	·		<u> </u>		** .		<u> </u>		wicas. Depart
Ojo Alan	10	824	' l.	878'			White, cr-gr s	s ·		Ojo Alamo	824'
Kirltand	1	878	' l	2063'		Gry sh interbe	dded w/tight,	gry, fine-gr ss.	· ·	Kirltand	878'
Fruitland	i.	2063	g.	2503'	. Dk gry-gry	carb sh, coal,	gra silts, light	-med gry, tight, fine gr ss.		Fruitland	2063'
	Pictured Cliffs 2503			2644'			ry, fine grn, ti			Pictured Cliffs	2503'
Lewis		2644		3258'	ļ		w/ siltstone st		Ì	Lewis	. 2644'
Huerfanito Bentonite 3258'			3598'	1		waxy chalky b			Huerfanito Bentonite	3258'	
					ĺ		, , , , , , , ,			••	
Chacra		3598	3'	0	Gry	fn grn silty, gla	nuconitic sd sto	one w/ drk gry shale		Chacra	3598'
·Mesa Verde				4344'	,	Light gry, me	ed-fine gr ss, c	arb sh & coal		Mesa Verde	0
Menefee 4344		,	4819'		Med-dark gr	ry, fine gr ss, c	arb sh & coal		Menefee	4344'	
			ļ		Med-light o			nt sh breaks in lower part o	ď		
Point Look	cout	. 4819)'	5194'		,,, , ,,, ,,,,, ,,,,,	formation	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	Point Lookout	4819'
Mancos	S	5194	V []	6099'		Γ	Dark gry carb s	sh.		Mancos	5194'
					Lt. gry to b			s & very fine gry gry ss w/	1		
Gallup		6099		6853'			rreg. interbed s	•.		. Gallup .	6099'
Greenho		6853		6907'			calc gry sh w/ 1		i .	Greenhorn	6853'
Granero	s'	6901	/ ·	6959'	Lt to dark o		, fossil & carb	w/ pyrite incl. w/ pyrite incl thin sh band		Graneros	6907'
, Dakota	1	6959) '		2. 10 03	, ,	ly Y shale brea	• • •		Dakota	. 6959'
Morriso	n				Interl	bed grn, brn &	red waxy∙sh &	& fine to coard grn ss		Morrison	
32. Additional	remarks	(include pl	ugging pro							· · ·	
•	•	•		. This i	s a Blanco	Mesaverde	& Basin Da	kota commingle well	under DHC3	717AZ.	
							•				
•								•			,
•								•		•	•
							• •				
•					•			•			•
								•			
	•						•			• •	
- 33. Indicate w	hich item	s have bee	n attached	by placing a che	ck in the ap	propriate bo	xes:				
						. 🗂		· .			
X Electrica	l/Mechai	nical Logs	(1 full set	req'd.)		☐ Geo	ologic Repor	t . L_DS	T Report	Directional Surv	/ey
☐ Sunday N	Votice fo	r plugging :	and comer	t verification		□ Cor	e Analysis	Doi	ıeı		
		plugging .		it verification			C Fularysis				
34. I hereby ce	ertify that	the forego	ing and at	tached information	on is comple	ete and corre	ct as determ	ined from all available	records (see a	ttached instructions)*	
	, ,			•				gen a			
Name	(please p	orint)		Arl	een Kellyw	ood	-0-	Title		Staff Regulatory Tech.	· · ·
[*] Signat	ure		- 1	Ween	<i>d</i> rell	mor	77X	Date	11/16	12	· ()
Jigilat	$\mathcal{N}($										
Title 10 11 0: C	Co-t'-	1001 25	Fide 42 11	CC Casti 121	(2 mak- 5	a orina f	ny noras - 1	ouringly and willen	to males to o	department or access - Ed IT	and States and
Title 18 U.S.C.	. Section	TOOL and	i iiic 43 U	.s.c. section 121	ı∠, ınake it a	a crime for a	ny person kr	iowingry and writtuily	to make to any	department or agency of the Unit	eu states any

false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)