Form 3160-4 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2004

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la. Type o	f Well	П	hil We	n 171	Gas Well	Dry Ot	her					6.	If India	n, Allotte	e or Tribe Name
	f Completi			_	w Well 🔲 V			en 🗍 Pli	ig Back	☐ Diff	Resyr /			he Tribe	
.,,,,,,,,						,			-6 - avi			<u> </u>			ement Name and No.
2 Name :	600			Other_								2424	5		
2. Name o	•							/	731	115 16 77	2	8.	Lease 1	Vame and	Well No.
Black Hills		irces,	inc_					12. 100. 3	\(\frac{\frac}{\frac}{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac}\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac{\frac}{\frac{\frac{\frac{\frac}{\frac{\frac}{\frac{\frac}}}}}{\frac{\frac{\frac{\frac{\frac{\frac{\frac}{\frac{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac{\frac}{\frac{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac{\frac}{\frac	<u> </u>		— Jicar	illa 451-	03 No. 41	
3. Addres		40v	1	,	Caldan CO 80	401		720-210-1	: No. (Inc	cludejarea (1 V	coae);	9.	API W	ell No.	
350 Indiana					Golden, CO 80 early and in acc		Fadaval			'' 2005	(22)		39-2924		
4. Location	I OI WEILT	керы	riocai	ion cie	any ana m acc	or aurice with	reaerar	requirement		· · · · ·)		10.	Field a	nd Pool, o	r Exploratory
At sur	face 870'	FSL 8	& 455'	FWL (N tinU (WZWZ	Λ		(ic)		S. Office				iyon, Terti	
Atton	mead into		nortad	halow	0701 PCI 0. 4	ee cwi /ew	ouń n	" fr.			SI	11	. Sec., ? or Ari	f., R., M.,	on Block and Survey
Artop	prod. inter	vai ic	portea	DCIOW	870' FSL & 4:	oo rwl (ow	SW) Unit	M Y	ה <u>י</u>	٠,٠	0.3	<u> </u>	Comme	Sec. 3, T	29N-R03W 13. State
At tota	ıl depth 87	70' FS	L & 45	55' FW	L (SWSW) Uni	it M			€//	ir ir Gill	Limo	1	_	or Parish	NM
14. Date	.				Date T.D. Reach			16. Date C	ompleter	d			Arriba	ions (DE	RKB, RT, GL)*
14. Date	Spauded			13. 1	Jate 1.D. Reaci	ເດຍ		D		Ready t	o Prod.	1'	. Elevai	ions (Dr.	KKB, KI, UL)
10/15/2004				10/16	/2004				•	3/13/		7052	'GL, 70	65' KB	
18. Total					19. P	lug Back T.[20. Dept	h Bridge	Plug Set:			
		VD 3					TVD	3760'					TV		
21. Type E	lectric & C	ther h	Mechai	nical L	ogs Run (Subm	it copy of eac	h)			22. Was			Z No	=	(Submit analysis)
LINE CENT II	DONT									1	DST run ctional Si		✓ No	_	(Submit report) (Submit copy)
HRI, SDL/I		r Reco	rd /R	enort of	ll strings set in v	vall)				Dile	Citoliai 5	urvey: [Y NO	1 1 63	(Submit copy)
	T	$\neg \neg$				Ţ	Stag	e Cementer	No.	of Sks. &	Slurry	Vol.	Camar	nt Top*	Amount Pulled
Hole Size	Size/Gr	ade	Wt. (#/ft.)	Top (MD)	Bottom (M	D)	Depth	Type	of Cement	(BĚ		Center	it 10b.	Amountruncy
12 1/4"	8 5/8	"	24	1b	0'	279.1'			ī	75 sx			sur	face;	
													circ	15bbl	
													to si	arface	······································
7 7/8"	5 1/2	0	1	7	0'	280'			6	50 sx	<u> </u>		sur	face;	
7 7/8"	5 1/2	"	15	.5	281'	3760'			ļ		<u> </u>		circ	5bbls	
	<u> </u>							<u> </u>			L		lo si	ırface	<u> </u>
24. Tubing	,				 			<u> </u>							
Size	Depth	Set (MD)	Packe	r Depth (MD)	Size	Dept	th Set (MD)	Packer	Depth (MD)	Si	ze	Depth	Set (MD)	Packer Depth (MD)
2 3/8"		3663'			3495'			D		2826'	<u> </u>		<u>i </u>		
25. Produc	Formatio				TOD	Dettom	26.	Perforation Perforated			Size	I No. II	olas	 .	Perf. Status
A) xx :		"			TOP	Bottom				 		No. H			
A) Nacimie B) Nacimie				+	2246	2248 2885		2246-2 2876-78,2			4			 -	Open
C)	110			+-	2870	2863	30	66-68,3134-36		-66	4	16 40			Open Closed
D)				+				251-53,56-58,	·		4	32	—t		Closed
	racture. T	reatme	nt. Ce	ment S	queeze, Etc.			251-55,50-56,	Ju-70,70-	76					Ciuseu
	epth Inter			Т		······································		А	mount a	nd Type of l	Material				<u></u>
2876-2885	<u> </u>			Acid	ized w/19 bbls 3	% HCl.							• • • • • • • • • • • • • • • • • • • •		
3066-3166				Acid	ize w/23.3 bbls H	Cl. Pump 422.0	000 scf N2.	Cmt Sqz w/ 8	0 sx of cn	nt.					
3251-3278				Acid	ized w/ 600 gal 3	% HCl., 385 ms	cf N2. Fra	c w/51,040# of	16/30 sar	nd, 70Q, 426 i	nsef N2.	Cmt Sgz w	/ 50 sx o	f cmt. Resqz	w/35 sx of cmt.
														و رستي د	
28. Produc						,					······································			-	
Date First Produced	Test Date	Hour: Tested		Test Productio	on BBL	Gas MCF	Water BBL	Oil Grav Corr. Al		Gas Gravity	Pro	duction M	-		
3/25/05	3/8/05	24	, [195					Flo	wing	-11 	77	
Choke	Thy Press.	Csg	- :	24 Hr. Rate	Oil	Gas	Water	Gas: Oil		Well Statu			1.5	6 C	
Size	Flgw SI	Press			BBL	MCF	BBL	Ratio		D	~		7.5	[7]	****
28a. Produc	tion . Inter	ryal B				<u> </u>				Producin	<u> </u>	· · · · · · · · · · · · · · · · · · ·	AC	CEPTE	FOR RECORD
Date First	Test	Hours		Test	Oi!	Gas	Water	Oil Grav	ity	Gas	Pro	duction Me		() ()	
Produced	Date	Tested		Producti	on BBL	MCF	BBL	Corr AF		Gravity					1 3 2005
Chate	The Drum	Call	- 1	14 11:		Car.	Water	Carrott		10 0 0		<u> </u>			T •> C002
Choke Size	Tbg. Press.	Call Press		24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratto		Well Stat	us		FA	สิพเพยา	UM FIELD OFFICE
	SI	L												_ 01	5

Due From First Professor Professor	28b. Produ	iction - Inter	rval C								
Size Price Price Price Price BBL MCF BBL B				Test Production	Oil BBL	Gas MCF				Production Method	
Due Fred Test Fred Fre		Flwg.	Csg. Press		Oil BBL	Gas MCF			Well Status	<u> </u>	
Produced Date Total Production BBL MCF BBL Carr AN' Directions	28c. Produ	ction - Inter	rval D		L	<u> </u>		<u>-</u>	<u>, -1,</u>		
Size Five Press Rate SBL MCF BBL Ratio Station				Test Production	Oil BBL	Gas MCF	Water BBL			Production Method	
30. Summary of Porous Zones (Include Aquifers): Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries. Formation Top Bottom Descriptions, Contents, etc. Name Top Meas. Depth San Jose Surface Nacimiento 2082: Ojo Alarno 3160/ Richard 3399 Fruitland 3399 Fruitland 3359 Fruitland 3359 Fruitland 3359 Fruitland 33649 32. Additional remarks (include plugging procedure): 33. Circle enclosed attachments: ① Electrical/Mechanical Logs (I full set reqd.) 2 Geologic Report 3 DST Report 4 Directional Survey 5 Sundry Notice for plugging and attached information is complete and correct as determined from all available records (see attached instructions)* Name (please print) Allison Newcomb Title Engineering Technician Date 192805		Flwg			Oil BBL	Gas MCF		Gas Oil Ratio	Well Status		
30. Surmany of Porous Zones (Include Aquifers): Show all important zones of perosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, custion used, time tool open, flowing and shuu-in pressures and recoveries. Formation Top Bottom Descriptions, Contents, etc. Name Top Meass. Depth San Jose Surface Nacimiento 2082; Ojo Alamo 3160' Kirtland 3399' Fruttland 3527' Pictured Cliffs 3649' 33. Circle enclosed attachments: ① Electrical/Mechanical Logs (I full set req'd.) 5 Sundry Notice for plugging and cement verification 6 Core Analysis 7 Other: 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)* Name (please print) Allison Newsomb Title Engineering Techniciae Date 5/12/2005	29. Dispos	ition of Gas	(Sold use	d for fuel, v	ented, etc	.)					
Show all important zones of promity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries. Formation Top Bottom Descriptions, Contents, etc. Name Meas. Depth Meas. Depth Nacimiento 2082: Op. Alarmo 3160' Kirthard 3359' Fruitfund 3527' Pictured Cliffs 3649 32. Additional remarks (include plugging procedure): 33. Circle enclosed attachments: ① Electrical/Mechanical Logs (1 full set reg'd.) 2 Geologic Report 3 DST Report 4 Directional Survey 5 Sundry Notice for plugging and cement verification 6 One Analysis 7 Other: 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)* Name (please print) Allison Newcomb Tritle Engineering Technician Title Engineering Technician Date 5/3/2005				<u> </u>							
San Jose Surface Nacimiento 2082 Ojo Alamo 3160 Kiritand 3399 Fruitland 3527 Pictured Cliffs 3649	Show tests,	all importa	ant zones	of porosity a	nd conte	nts thereof: (i, time tool o	Cored intervi pen, flowing	als and all drill-stem and shut-in pressures	.]	on (Log) Markers	
Nacimiento 2082 Ojo Alamo 3160' Kirtland 3399' Fruitland 3527' Pictured Cliffs 3649' 32. Additional remarks (include plugging procedure): 33. Circle enclosed attachments: ① Electrical/Mechanical Logs (I full set req'd.) 2 Geologic Report 3 DST Report 4 Directional Survey 5 Sundry Notice for plugging and cement verification 6 Core Analysis 7 Other: 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)* Name (please print) Allison Newcomb Title Engineering Technician Signature Date 5432005	Form	ation	Тор	Bottom		Desci	riptions, Cont	tents, etc.		Name	
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Name (please print) Allison Newcomb Title Engineering Technician Signature Olling Allison Newcomb Date 5/3/2005	5 Sur	ndry Notice	for pluggit	ng and cemer	nt verifica	tion 6	Core Analysis	7 Other:			
Signature allister Auncemb Date 5/3/2005	34. I herel	by certify th	at the fore	going and at	tached int	ormation is	complete and	correct as determine	d from all availa	able records (see attached i	nstructions)*
Signature alles Aucomb Date 5/3/2005	Name	(please pri	nt) Allison !	Newcomh				Title Engineeri	ng Technician		
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Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 make it a crime for any person knowingly and willfully to make to any department or agency of the Unit	Signat	ure	lli	282-	1 Ju	Nem	16	Date 5/3/2005			
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(Form 3160-4 (9/01), Page 2)