Form 3160-4 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMBNO, 1004-0137 Expires: March 31, 2007

	WH	LCOM	APLET	TION OR	RECOME	9I FTIO	N REPOR	RT ANI	DLOG					PL 1-137	
WELL COMPLETION OR RECOMPLETION						60011				5. Lease Serial No. 14-20-603-2198					
. Type o	of Well	₹ Oil V	Vell	Gas Well	Dry [Other	₹ 5	01 d	UL 1	Ū,		6.]1	(Indi	an, Allottee	or Tribe Name
	f Completi				Work Ove		enen MPh	g Back	☐ Di	ff. Resv	т		Nava	ijo	
71			Other .				السببا الما		RE	CEI	VED	7 (Init o	r CA Agree	ment Name and No.
Maria	of Onomia							070					ŅA		
2. Name of Operator Richardson Operating Company								0101111111				8. Lease Name and Well No. NV Navajo 24 #1			
3. Address 3100 La Plata Highway, Farmington, NM 87401							3a. Pho	3a Phopo to include area code)			de)	9. AFI Well No. 30-045-31390			
T 45		(D1)				at P. L.	- 23.1	~~~	A	-1-0	3				Exploratory
				· ·			al requiremen	JU	الجالية - ما	,		l .			& Basin FC
At surface 704' FNL, 1021' FEL, Sec 24, T29N, R14W At top prod. interval reported below								JUL 2004				11. Sec., T., R., M., on Block and Survey or Area Sec. 24, T29N, R14W			n Block and Sec. 24, T29N, R14W
A t tot	ıl depth S	same as	above				The state of the s	r VO Dist	100. [Me	w		Count an Ju	y or Parish	13. State NM
. Date S				Date T.D. Re	nched.		16 Date C	amplete	4	4 1000	<u> </u>				KB, RT, GL)*
	5/2004		15.	06/08/200					Read	1/2004 y to P)			364'	, ,	KB, KI, UL)
. Total	Depth: M	D 1218	' GL	19	. Plug Back T	.D.: MD	, E	£11:	200 6	pue Di	dge Plug	Set:	MD		
	-	VD			ŭ	TVI		شنده	CAUE		_		TVI	D	
Tyne	electric &	Other Me	chanics	al Logs Run (Submit copy				22. W	as well	cored?	✓ No		Ves (Sub	nit analysis)
					олоши сору					as DST		No.		Yes (Subi	
Comp	pensated l	veutron	Log						D	irection	al Survey	1	No		ubmit copy)
Casin	g and Line	r Record	i (Repo	rt all string	s set in well)										
ole Size	Size Size/Grade Wt. (#/ft.) Top			Top (MD)			ige Cementer Depth		of Cemer		urry Vol (BBL)	ry Vol. Cement		Top*	Amount Pulled
3/4"	7" K-	55 20	#	Surface	1281	26		65 sx		14	4 bbl	Sı	urfac	e	Circ. 4 bbl
1/4"	4.5" J	-55 10.	.5#	Surface	1218"	1207		100 s	x	3'	7 bbl				
								70 sx		1:	5 bbl	St	urfac	e	Circ. 15 bbl
				<u> </u>		L		<u> </u>							
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				L				L						1	
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Tubing	g Record							<u></u>							
Tubin; Size		Set (MD) Packe	er Depth (MD)) Size	D	pth Set (MD)	Packer	Depth (N	(D)	Size	<u>ا</u> ارا	Depth	Set (MD)	Packer Depth (MD)
Size		Set (MD	Packe	r Depth (MD)) Size	De	epth Set (MD)	Packer	Depth (N	(D)	Size		Depth	Set (MD)	Packer Depth (MD)
Size	Depth 1120' cing Interva	ıls) Packe			2	6. Perforation	n Record						Set (MD)	Packer Depth (MD)
Size 3/8" . Produc	Depth 1120'	ıls) Packe	er Depth (MD)	Size Botton	2	· · · · · · · · · · · · · · · · · · ·	n Record		(D) Size		io. Holes			Packer Depth (MD) erf. Status
Size 3/8" Produc	Depth 1120' cing Interva	ıls 1	Packe			20	6. Perforation Perforated 95'; 941'; 958	n Record Interval		Size					
Size ? 3/8" . Produc	Depth 1120' cing Interva Formation Fruitian	ils i d Coal	Packe	Top 895'	Botton 1014'	20 1 89	6. Perforation Perforated 95'; 941'; 958 92'-1000'; 10	n Record Interval	4'	Size 0.38" 0.38"	3 48			P	
Size 2 3/8" 5. Produc Bash West	Depth 1120' cing Interva	ils i d Coal) Packe	Тор	Botton	20 1 89	6. Perforation Perforated 95'; 941'; 958	n Record Interval	4'	Size	N 3			Open	
Size 2 3/8" Produc Basti West	Depth 1120' sing Interva Formation Fruitian Kutz PC	ils 1 d Coal		Top 895'	Botton 1014'	20 1 89	6. Perforation Perforated 95'; 941'; 958 92'-1000'; 10	n Record Interval	4'	Size 0.38" 0.38"	3 48			Open Open	
Size 2 3/8" 5. Produc Bash West	Depth 1120' ing Interva Formation Fruitlan Kutz PC Fracture, Tr	d Coal		Top 895'	Botton 1014'	20 1 89	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024'	n Record Interval 3':	4'	Size 0.38" 0.38"	3 48 4			Open Open	
Size 2 3/8" . Product Basil West	Depth 1120' cing Interva Formation Fruitian Kutz PC Fracture, Tr	d Coal		Top 895' 1020'	Botton 1014'	2/1 899 999 110	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024'	n Record Interval 3':	4'	Size 0.38" 0.38"	3 48 4			Open Open	
Size 2 3/8" . Product Basil West	Depth 1120' cing Interva Formation Fruitian Kutz PC Fracture, Tr	d Coal		Top 895' 1020' Squeeze, etc.	Botton 1014'	20 85 95 10	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024' A	n Record Interval 3': 09'-101	4' and Type	Size 0.38" 0.38" 0.38"	3 48 4	io. Holes	8	Open Open Open	erf. Status
Size 2 3/8" 5. Product Basin West 7. Acid, 1	Depth 1120' cing Interva Formation Fruitian Kutz PC Fracture, Tr	d Coal		Top 895' 1020' Squeeze, etc. Spearhead Frac with	Botton 1014' 1024' with 1000 g 38,884 gal ge	20 88 99 10	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024' A HCl. 1, with 84,21'	n Record Interval 3': 09'-101	4' and Type	Size 0.38" 0.38" 0.38"	3 48 4	io. Holes	8	Open Open Open	erf. Status
Size 2 3/8" 5. Product Basin West	Depth 1120' cing Interva Formation Fruitian Kutz PC Fracture, Tr	d Coal		Top 895' 1020' Squeeze, etc. Spearhead Frac with	Botton 1014'	20 88 99 10	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024' A HCl. 1, with 84,21'	n Record Interval 3': 09'-101	4' and Type	Size 0.38" 0.38" 0.38"	3 48 4	io. Holes	8	Open Open Open	erf. Status
Size 2 3/8" 5. Product Basin West 7. Acid, 1 1895'-102	Depth 1120' cing Interva Formation Fruitian Kutz PC Fracture, Tr	d Coal catment, (Top 895' 1020' Squeeze, etc. Spearhead Frac with	Botton 1014' 1024' with 1000 g 38,884 gal ge	20 88 99 10	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024' A HCl. 1, with 84,21'	n Record Interval 3': 09'-101	4' and Type	Size 0.38" 0.38" 0.38"	3 48 4	io. Holes	8	Open Open Open	erf. Status
Size 2 3/8" Product Basti West Acid, 1 895'-102	Depth 1120' ing Interve Formation Fruitian Kutz PC Fracture, Tr Depth Interve 4' Laction - Interve Test	eatment, (val A	Cernent S	Top 895' 1020' Squeeze, etc. Spearhead Frac with	Botton 1014' 1024' with 1000 g 38,884 gal gd 630 gal Aqu	88 99 10 10 11 11 11 11 11 11 11 11 11 11 11	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024' A HCl. 1, with 84,21'	n Record Interval 3'; 09'-101	4' and Type	Size 0.38" 0.38" 0.38"	3 48 4 4 srial	io. Holes	li in s	Open Open Open	erf. Status
Size 2.3/8" Product Basti West Acid, 1 B895'-162	Depth 1120' sing Intervention Formation Fruitian Kutz PC Fracture, Tr Depth Interval 4'	eatment, (val	Cement S	Top 895' 1020' Squeeze, etc. Spearhead Frac with	Botton 1014' 1024' with 1000 g 38,884 gal ge	20 85 95 10 al 15% I	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024' A HCl. 1, with 84,21'	n Record Interval 3'; 09'-101	4' nd Type	Size 0.38" 0.38" 0.38"	N 3 48 4 4 Product	sand, al	s s s s s s s s s s s s s s s s s s s	Open Open Open	erf. Status
Size 2 3/8" 3 Product Basti West Acid, 1 1 895'-102 3 Product First reduced	Depth 1120' sing Interve Formation Fruitian Kutz PC Fracture, Tr Depth Interve 4' action - Inte Test Date	eatment, (//al Hours Tested	Test Produc	Top 895' 1020' Squeeze, etc. Spearhead Frac with : Flush with	Botton 1014' 1024' with 1000 g 38,884 gal gd 630 gal Aqu	88 99 110 110 110 110 110 110 110 110 110	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024' A HCl. 1, with 84,21' 20 Oil Grar Corr. A	n Record Interval 3'; 09'-101- Amount a 7.5# 20/	4' and Type	Size 0.38" 0.38" 0.38" 0.48" 0.58"	N 3 48 4 4 Product	io. Holes	s s s s s s s s s s s s s s s s s s s	Open Open Open	erf. Status
Size 2 3/8" Product Basin West Acid, 1 1 895'-102 Product First reduced	Depth 1128' ing Interve Formation Fruitian Kutz PC Fracture, Tr Depth Interve Ltion - Inter Test Date Tbg. Press. Flug.	eatment, (val A	Cernent S	Top 895' 1020' Squeeze, etc. Spearhead Frac with : Flush with	Botton 1014' 1024' with 1000 g 38,884 gal gd 630 gal Aqu	88 99 10 10 11 11 11 11 11 11 11 11 11 11 11	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10 920'-1024' A HCl. 1, with 84,21'	n Record Interval 3'; 09'-101- Amount a 7.5# 20/	4' and Type	Size 0.38" 0.38" 0.38"	3 48 4 4 srial Product Sanda	sand, al	Il in s	Open Open Open Open	erf. Status
Size 2.3/8" Product Basin West Acid, 1 1 895'-102	Depth 1120' ing Interve Formation Fruitian Kutz PC Fracture, Tr Depth Interval Ction - Interval Test Date Tog. Press.	eatment, (val A Hours Tested	Test Produc	Top 895' 1020' Squeeze, etc. Spearhead Frac with Flush with Oil BBL Oil	Botton 1014' 1024' with 1000 g 38,884 gai g 630 gal Aqu Gas MCF	20 85 96 10 10 10 10 10 10 10 10 10 10 10 10 10	5. Perforation Perforated P5'; 941'; 958 P2'-1000'; 10 D20'-1024' A HCl. 1, with 84,21' 20 Gas/Oil Grac Corr. A	n Record Interval 3'; 09'-101- Amount a 7.5# 20/	4' and Type	Size 0.38" 0.38" 0.38" 0.48" 0.58"	N 3 48 4 4 Product	sand, al	Il in s	Open Open Open Open	erf. Status
Size 2 3/8" 5. Produc Date First roduced Choke Size Ba. Produced Choke Size Ba. Produced	Depth 1120' ing Interve Formation Fruitian Kutz PC Fracture, Tr Depth Interve L4' Tost Date Tbg. Press. Flvg. Sl	eatment, (val A Hours Tested Csg. Press.	Test Production 24 Hr. Rate	Top 895' 1020' Squeeze, etc. Spearhead Frac with: Flush with Oil BBL Oil BBL	Botton 1014' 1024' with 1000 g 38,884 gai gs 630 gal Aqu Gas MCF Gas MCF	22. 16 88 99 114 15% 1 16 16 16 16 16 16 16 16 16 16 16 16 1	5. Perforation Perforated 95': 941': 958 22'-1000': 10 120'-1024' A HCl. 1, with 84,21' 20 Oil Gra Cor. A Gas/Oil Ratio	n Record Interval 3': 09'-101. Amount a: 7.5# 20/	nd Type (40 Brad Gas Grav Well	Size 0.38" 0.38" 0.38" 0.48" 0.58"	A 3 48 4 4 stial ser LC s	sand, al	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Open Open Open Open Open ACCEP	erf. Status s. TED FOR REC
2 3/8" 5. Product Basin West 7. Acid, 1 895'-102 Basin Respond to the second to	Depth 1120' sing Interve Formation Fruitian Kutz PC Fracture, Tr Depth Interval ction - Inte Test Date Tbg. Press. Flwg. Sl	eatment, (val A Hours Tested	Test Produc	Top 895' 1020' Squeeze, etc. Spearhead Frac with : Flush with Oil BBL Oil BBL	Botton 1014' 1024' with 1000 g 38,884 gai g 630 gal Aqu Gas MCF	20 85 96 10 10 10 10 10 10 10 10 10 10 10 10 10	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10' 120'-1024' A HC1. 1, with 84,21' 20 Oil Graz Cor. A Gas/Oil Ratio	n Record Interval 3'; 09'-101- Amount a 7.5# 20/	4' and Type	Size 0.38" 0.38" 0.38" 0.38" Of Mate	A 3 48 4 4 stial ser LC s	sand, al	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Open Open Open Open Open ACCEP	erf. Status s. TED FOR REC
Size 2 3/8" 5. Product Basti West 7. Acid, 1 895'-102 3. Product Choke Size 8a. Product Size Size	Depth 1120' ing Interve Formation Fruitian Kutz PC Fracture, Tr Depth Interve 4' Test Date Test Date Tbg. Press. Fiwg. Sl uction - Interve Test	eatment, (val A Hours Tested Csg. Press.	Test Production Rate	Top 895' 1020' Squeeze, etc. Spearhead Frac with : Flush with Oil BBL Oil BBL	Bottom 1014' 1024' 1024' with 1000 g 38,884 gai ge 630 gal Aqu Gas MCF Gas MCF	88 99 110 110 110 110 110 110 110 110 110	5. Perforation Perforated 95': 941': 958 22'-1000': 10 120'-1024' A HCl. 1, with 84,21' 20 Oil Gra Cor. A Gas/Oil Ratio	n Record Interval 3'; 09'-101- Amount a 7.5# 20/	4' de Brad Gas Grav Well	Size 0.38" 0.38" 0.38" 0.38" Of Mate	A 3 48 4 4 stial ser LC s	sand, al	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Open Open Open Open Open Open	erf. Status s. TED FOR REC JL 2 3 2004
Size 2 3/8" 5. Product 9. Basti 10. 11. 12. 13. Product 14. 15. Product 16. Product 17. Acid, 1 1895'-102 1895'-102 1895'-102 1895'-102 1895'-102 1895'-102 1895'-102 1895'-102 1895'-102	Depth 1120' ing Interve Formation Fruitian Kutz PC Fracture, Tr Depth Interve 4' Test Date Test Date Tbg. Press. Fiwg. Sl uction - Interve Test	eatment, (val A Hours Tested Csg. Press.	Test Production Rate	Top 895' 1020' Squeeze, etc. Spearhead Frac with : Flush with Oil BBL Oil BBL	Bottom 1014' 1024' 1024' with 1000 g 38,884 gai ge 630 gal Aqu Gas MCF Gas MCF	88 99 110 110 110 110 110 110 110 110 110	5. Perforation Perforated 95'; 941'; 958 92'-1000'; 10' 120'-1024' A HC1. 1, with 84,21' 20 Oil Graz Cor. A Gas/Oil Ratio	n Record Interval 3'; 09'-101- Amount a 7.5# 20/	4' de Brad Gas Grav Well	Size 0.38" 0.38" 0.38" Size 0.38"	A 3 48 4 4 stial ser LC s	sand, al	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Open Open Open Open Open Open	erf. Status s. TED FOR REC

28b. Production - Interval C													
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		_			
28c, Production - Interval D													
Date First Test Hours Produced Date Tested		Test Production	Oil BBL			Oil Gravity Corr. API	Gas Gravity	Production Method	_				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status		_			
29. Disposition of Gas (Sold, used for fuel, vented, etc.)													
30. Sum	mary of Por	ous Zones	(Include Aq	rifers):				31. Formati	on (Log) Markers				
tests.	v all import including or recoveries.	tant zones depth interv	of porosity a val tested, cu	and content shion used,									
Formation		Тор	Top Bottom		Descri	ptions, Conten	ts, etc.		Name Top Meas. Depth	_			
Fruitland Pictured		864' 1015'	1015' TD										
·													
32. Additional remarks (include plugging procedure):													
33. Indica	ate which it	mes have b	een attached	by placing	a check in t	he appropriate	boxes:						
33. Indicate which itmes have been attached by placing a check in the appropriate boxes: Electrical/Mechanical Logs (1 full set req'd.)													
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 pri	int)	Jo B	Secksted	é	, ,	Title	Compliance Administrator					
Signa	nture		7	Des	cksi	TOS	Date <u>07/16/2</u>	7/16/2004					
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 United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.													