Form 3160-4 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137

		Vi:	3-19		DUKEAU C	r Land Ma	NAGEN	IEN I	SE	<b>:</b> P -	-8 2	009				ch 31, 2007	
		<b>&gt;6</b> 4	WELL	COMPLET	ION OR I	RECOMPL	ETIO!	N REPORT	AND	LOG			1	se Serial l NM-99			
• •	oe of Well oe of Comple	_	Dil Well	Gas Well	Work C	over	Deeper	n Plug E	ack		Diff. R	lesvr.	6. If I	ndian, All	ottee or T	ribe Name	
2. Na	ne of Operate			Other Plu	g back and	drill horizo	ntal Bo	one Spring					7. Un:	it or CA A	Agreement	Name and N	0.
	narex Ener		of Colora	do										ise Name a		No. ederal Com	No 1
	dress 15 N. O'Co	nnor Bl	lvd., Ste.	1500; Irvinį	g, TX 7503	9		3a Phone 972-4	No. (in 143-64		area co	de)	9. AP	I Well No -015-316			
4. Loc	ation of Wel	(Repor	t Location	clearly and i	n accordance	with Federa	l require	ements)*					10 Fie	ld and Pool Logart, Bo	ol, or Expl one Spri	loratory ng, North	
At	surface			178	0 FSL & 16	50 FWL							1	e, T., R., N vey or Are	•	ock and	
At	top prod. inte	rval rep	orted belov	v 178	0 FSL & 16	50 FWL								-18S-31E anty or Par		13. State	
At 1	total depth			352	FSL & 837	FEL							Ed	dy		NM	
14 Dat	e Spudded <b>04.23.01</b>			e T.D. Reache <b>28.09</b>	d			16. Date Comp		Rea	07.03 ady to Pa			vations (D 28' GR	OF, RKB, I	RT, GL)*	
18 Tot	al Depth.	MD TVD	1175 877	1	Back TD.		1751' 3772'		20	). Dep	oth Brid	ge Plug S	et. MD		!5' (in or	iginal wellb	ore)
21. Tyr	ne Electric &			Logs Run (Su	hmit copy of		3//2		22	) Was	s well co	nred?	No		(Submit a	inalysis)	
21. 1)	e Biocure &	Outor IV	rechamicar	Logo Ivan (ou	опистору о	cuony					s DST r		No	_	(Submit r	• •	
Lo	gs run on ir	nitial co	mpletio	n					1	Dire	ectional	Survey				(Submit copy	·)
23. Cas	ing and Line	r Record	(Repor	t all strings se	et in well)												
Hole Sız	e Size/Gi	ade	Wt. (#/ft	.) Top (M	D) Bot	tom (MD)	Stag	ge Cementer Depth	ı	o. of Sk			ry Vol. BBL)	Cemen	nt Top*	Amount	Pulled
17½"	13¾" ł		48#	0'		755'		тэерш	450	sx, 2	00 sx	\ <u>\</u>	DE)		)'		
12½" 7½"	9¾" J 5½" N		40# 17#	0'		3205' 12526'	<del> </del>				200 sx	100 0			)'  50'		
43/4" *	3½" N		9.3# UF			9206'	<del> </del>				AK line	100 sx er		10	30		
43/4" *	2%" L	-80	6.5# EU	E 9206	,	11550'					AK line						
	tal section	L	<del></del>				l					1		_		<u> </u>	
Size	oing Record Depth S	et (MD)	Packer	Depth (MD)		ize	Der	oth Set (MD)	Pac	ker De	pth (MI	2)	Size	Depth S	Set (MD)	Packer De	nth (MD)
2%"	81		T doker	Deptii (IVID)				our bet (IVID)	T do	NOI DO	pur (1411		DIEC	Бераго	ot (IVID)	T deact De	puir (IVIID)
25. Pro	ducing Interv	als					26. Per	foration Record									
	Formati			Top		ttom		Perforated Int				Size		Holes		Perf Status	3
A) B)	Bone S	pring	`	8519'	11	751'	No pe	erfs, frac'd thi	ough	PEAK	compl	etion li	ner T				
C)	<del></del>																
D)																	
	d, Fracture, 1 h Interval	reatmer	it, Cement	Squeeze, etc				Amount and	Type o	f Mate	enal						<del></del>
		Plea	se see at	tachment	for the 2 m	rulti-stage f	rac job	s (first 6-stag				he toe,	so secon	ıd multi-	stage fra	ac job was	
			ormed)						_ <del></del>								
		-															
		<u> </u>			<del></del>				=								
28 Pro	duction - Inte		Yours	Test	Oil BBL	Gas MCF	Water	Oil Gravity	Orr AP	ı C	as Grav	ity Pro	iuction Me	thod			
Produced	1 CSi D		Tested	Production	On BBB	Gas IVICI	BBL	On Gravity	Joil. At	1	btu	ity   110	inction Mc	aiou			
07.03.0	9 07.09		24	$\rightarrow$	122	100	332				1.301		mping			•	
Choke Size	Tbg Press		Csg Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ra	tio			ACC	<b>FPTF</b>	WellrSta	TR RE	CORD	1
20/64	, -	110	75				שממו	82	0			Г		Produci		-50110	1
	duction - Inte						1										
Date First	Test D	ate I	lours	Test	Oil BBL	Gas MCF	Water	Oil Gravity	Corr. AP	I Gas	Gravity	Pro	luction Me	thod 2	2009		<del></del>
Produced		17	Tested	Production			BBL				- 1	[,	/s/	Myle			
Choke	Tbg. Press		Csg. Press.	24 Hr	Oıl BBL	Gas MCF	Water	Gas/Oil Ra	tio	Wei	ll Status	BIII I L		LAND			
Size	Flwg.		~55. I 1699.	Rate	0.1. DDL	14101	BBL	Gas/On Ra		1,461			CARLSE	BAD FIEL	LD OFFI	ĊĔ	

SI

<sup>\* (</sup>See instructions and spaces for additional data on page 2)

28b	Produ	iction - Inter	val C										
Date First Produced		Test Date	Hours Tested	Test Production	Oıl BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method			
				$\rightarrow$									
Choke Size		Tbg Press Flwg	Csg Press	24 Hr Rate	Oıl BBL	Gas MCF	Water BBL	Gas/Oıl Ratıo	Well Status				
		SI		$\rightarrow$							<u></u>		
28c.		action - Inter	rval D Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	In 1 1 261 1			
Produced		Date	Tested	Production	BBL	MCF	BBL	Corr API	Gravity	Production Method			
Choke Sıze		Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oıl Ratıo	Well Status				
29.	Dispo	si sition of Ga	s (Sold, used	l for fuel, ven	ted, etc.)	<u> </u>							
	Sold		, ,		,								
30			us Zones (In	clude Aquife	rs) <sup>.</sup>				31. Form	ation (Log) Markers			
		dıng depth ir						all drill-stem test -in pressures and	s,				
Formation		ion Top Botto				Descri	iptions, Cont	tents, etc.		Name			
									San Andre	S	Meas. Depth 3205'		
									Delaware Bone Sprir	ıa	3820' 4000'		
									FBSS	·9	7663'		
									SBSS		8604'		
									Wolfcamp Strawn		9882' 10940'		
									Atoka		11136'		
			ŀ						Morrow C		11434'		
									Morrow C		11800'		
									Lower Mo Miss-Ches		12080' 12244'		
									IVIISS-CITES	ter-time	12244		
32. 06.16.	.09 Pe	erformed 6	stage frac j			due to a f	rac ball blo	ckage, only the	toe was frac'd.				
06.20 07.01			erything but I Pump - 2½	t the toe. 5" x 1¾" x 24	l' Quinn Fra	ac Pump H	IHBC.						
						·					•		
22	- ·									- · · · · ·			
33.				n attached by		_			<b></b>	a			
	=		_	s (1 full set re		=	Geologic Re	_ =	OST Report	Directional Survey			
	∐_St	ındry Notice	for plugging	g and cement	verification		Core Analys	sis [C	Other.				
34.	I here	eby certify th	at the forego	oing and attac	hed informa	tion is com	plete and co	rrect as determine	ed from all availa	ble records (see attached	instructions)*		
1	Name (p	olease print)		Natali	e Krueger		Title			Regulatory	_		
5	Signatur	·e	Jata	links	ړه ميد	<u> </u>	Date		Au	gust 10, 2009			
					-A								
		Section 1001 a							fully to make to a	ny department or agency of	f the United		

## Acid, Fracture, Treatment, Cement Squeeze, etc. Attachment West Shugart 31 Federal Com No. 1

31-18S-31E Eddy County, NM

Frac Job #1 06-16-09 (meant for whole well, ended up only fracing toe)

Depth Interval	Amount and Type of Material Used
Stage 1 11250' to 11751'	Pump 83 bbl acid & 83 bbl acid flush. Pump 600 bbl Pad. Start 00.5# 20/40 Sweep followed by 617 bbl Pad. Start Sand. Ramp 101849# of 20/40 Econosand. 121 bbl flush. Drop 1½" Ball.
<u>Stage 2</u> 10756' to 11250'	Pump 39 bbl acid & 33 bbl acid flush. Start 00.5# 20/40 Sweep followed by 600 bbl Pad. Start sand. Ramp 98741# of 20/40 Econosand. 99 bbl flush. Drop 1½" Ball.
<u>Stage 3</u> 10262' to 10576'	Pump 29 bbl acid & 37 bbl acid flush. Pump 600 bbl Pad. Start 00.5# 20/40 Sweep followed by 600 bbl Pad. Start sand. Ramp 100268# of 20/40 Econosand. 108 bbl flush. Drop 1¾" Ball.
<u>Stage 4</u> 9767' to 10262'	Pump 26 bbl acid & 36 bbl acid flush. Pump 600 bbl Pad. Start 00.5# 20/40 Sweep followed by 600 bbl Pad. Start Sand. Ramp 9937# of 20/40 Econosand. 88 bbl flush. Drop 2" Ball.
<u>Stage 5</u> 9705' to 9767'	Pump 25 bbl acid & 31 bbl acid flush. Pump 609 bbl Pad. Start 00.5# 20/40 Sweep followed by 600 bbl Pad. Start sand. Ramp 99005# of 20/40 Econosand. 82 bbl flush. Drop 2¼" Ball.
<u>Stage 6</u> 8519' to 9205'	Pump 22 bbl acid, & 30 bbl acid flush. Pump 640 bbl Pad. Start 00.5# of 20/40 Sweep followed by 600 bbl Pad. Start sand. Ramp 100437# of 20/40 Econosand. 77 bbl flushwith 77 bbl 20# DB XL.

Frac Job #2 06-20-09 (Stages 2 through 6 only)

FIAC JUD #2 00-20-09 (	Stages 2 through 6 dilly)									
Depth Interval	Amount and Type of Material Used									
Stage 2 10756' to 11250'	Break down with 24 bbl Jell water. Drop 1¼" Ball. Pump 29 bbl Acid. Pump 616 bbl Pad. Start 0.5# 20/40 Sweep, followed by 600 bbl Pad. Start sand. Ramp 100715# of 20/40 Econosand. 176 bbl Flush. Drop 1½" Ball.									
Stage 3 10262' to 10576'	Pump 27 bbl Acid. Pump 618 bbl Pad. Start 0.5# 20/40 Sweep, followed by 627 bbl Pad. Start sand. Ramp 84082# of 20/40 Econosand. 160 bbl Flush. Drop 1¾" Ball.									
Stage 4 9767' to 10262'	Pump 29 bbl Acid. Pump 618 bbl Pad. Start 0.5# 20/40 Econosand sweep followed by 608 bbl Pad. Start Sand. Ramp 101158# Econosand. 150 bbl flush. Drop 2" Ball.									
Stage 5 9705' to 9767'	Pump 21 bbl acid. Pump 615 bbl Pad. Start 0.5# 20/40 Sweep, followed by 612 bbl Pad. Start sand. Ramp 101075# of 20/40 Econosand. 130 bbl flush. Drop 2¼" Ball.									
<u>Stage 6</u> 8519' to 9205'	Pump 130 bbl Pad. Pump 50 bbl Acid followed by 602 bbl Pad. Start 0.5# sand sweep (68 bbl), followed by 603 bbl Pad. Ramp 115215# of 20/40 Econosand. 77 bbl flush.									