

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1060016

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

## WELL COMPLETION FORM

### WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #		API No. 15	
Name:		Spot Description:	
Address 1:		Sec	_TwpS. R 🗌 East 🗌 West
Address 2:		Feet fr	rom North / South Line of Section
City: State:	Zip: +		rom East / West Line of Section
Contact Person:		Footages Calculated from Near	
Phone: ()			
CONTRACTOR: License #			
Name:		-	Well #:
			Weir #
Wellsite Geologist:			
Purchaser:			
Designate Type of Completion:			Kelly Bushing:
New Well Re-Entr	ry Workover	Total Depth: Plug Ba	ack Total Depth:
Oil WSW	SWD SIOW	Amount of Surface Pipe Set and	d Cemented at: Feet
Gas D&A	ENHR SIGW	Multiple Stage Cementing Colla	ar Used? 🗌 Yes 🗌 No
OG	GSW Temp. Abd.	If yes, show depth set:	Feet
CM (Coal Bed Methane)		If Alternate II completion, ceme	nt circulated from:
Cathodic Other (Core, Exp	pl., etc.):		w/sx cmt.
If Workover/Re-entry: Old Well Info as	s follows:		0 0
Operator:			
Well Name:		Drilling Fluid Management Pla (Data must be collected from the Re	
Original Comp. Date:	Original Total Depth:		
	Conv. to ENHR Conv. to SWD	Chloride content:	ppm Fluid volume: bbls
	Conv. to GSW	Dewatering method used:	
	Plug Back Total Depth	Location of fluid disposal if haul	led offsite:
	ermit #:	On eventer Nerrer	
Dual Completion Pe	ermit #:		
SWD Pe	ermit #:	Lease Name:	License #:
ENHR Pe	ermit #:	Quarter Sec T	wpS. R East West
GSW Pe	ermit #:	County:	Permit #:
Spud Date or Date Reached Recompletion Date	d TD Completion Date or Recompletion Date		

#### AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

## Submitted Electronically

KCC Office Use ONLY
Letter of Confidentiality Received
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

	Side Two	1
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken (Attach Additional She	eets)	Yes	No		og Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolog	,	Yes	No	Nam	e		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	☐ Yes ☐ Yes ☐ Yes	No No No					
List All E. Logs Run:								
		Report all		RECORD Ne	ew Used	ion etc		
Purpose of String	Size Hole Drilled	Size Ca Set (In C	sing	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

#### ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: Perforate	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Shots Per Foot		PERFORATION Specify Fo		RD - Bridge P Each Interval I		e	ļ		ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed F	Product	ion, SWD or ENH	۶.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
									1	
DISPOSITIO	N OF C	BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTER	RVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Dually (Submit /		Commingled (Submit ACO-4)		
(If vented, Subi	mit ACC	)-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	RBL Unit 1-25
Doc ID	1060016

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density/Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	RBL Unit 1-25
Doc ID	1060016

# Tops

Name	Тор	Datum
Top Anhydrite	1646	+665
Base	1688	+623
Topeka	3324	-1013
Heebner	3556	-1245
LKC	3593	-1282
ВКС	3845	-1534
Marmaton	3907	-1598
Cherokee Shale	3943	-1632
Arbuckle	3956	-1645

# ALLIED CEMENTING CO., LLC. 039601

Federal Tax I.D.# 20-5975804

	Federal Tax	I.D.# 20-5975804			
REMIT TO P.O. BOX 31			SERV	/ICE POINT:	
RUSSELL, KANS	SAS 67665			Russe	. 11
DATE 4/28/4 SEC. 25	TWP. RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE RBL Unit WELL # 1-	2,- LOCATION Ell's	1524	11/25	COUNTY	STATE
OLD OR NEW Circle one)	Winto			Tres.	
		OUNED			
CONTRACTOR O's cover TYPE OF JOB Surface	NG S	OWNER			· · · · · · · · · · · · · · · · · · ·
HOLE SIZE 1244	T.D. <b>223</b>	- CEMENT	-		
CASING SIZE FIZE	DEPTH 222, 45		DERED 15	Co- 3 +	2
TUBING SIZE	DEPTH				
DRILL PIPE	DEPTH				· · · · · · · · · · · · · · · · · · ·
TOOL	DEPTH				
PRES. MAX	MINIMUM	COMMON	150	@ 16.25-	2437,50
MEAS. LINE	SHOE JOINT	POZMIX		@	
CEMENT LEFT IN CSG. 15		GEL	3	@ 21.2	63,75
PERFS.		CHLORIDE	5	@ 58,20	291,00
DISPLACEMENT /3.	21 61	ASC		@	
•	PMENT	· · · · · ·		_@	
		<u> </u>		@	
PUMP TRUCK CEMENTE	RShane Heat		· · · · ·	@	
# ¥09 HELPER	TONS	— . 	·····	_@	
BULK TRUCK	1 on y			@	
# 37 DRIVER	Rad			@	
BULK TRUCK	- 0,		· · · · ·	_@	
# DRIVER			100	_@	<u> </u>
		- HANDLING_	158	@_ <u>~~,~</u> _^	62,222
DEM	4 D 17 0.	MILEAGE	11151212-14	<u></u>	521.40
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		<u>-</u> *	SERVI	CE	
Est Curculatio	<b>ト</b>	→ <u>→</u>			
Mixed 150 sks		_ DEPTH OF JC		· · · · · · ·	
Mined (SOURS		PUMP TRUCH			1125,00
	$\frown$	∠ EXTRA FOOT	AGE 60		120,00
( yment 1	Irculat	_ MILEAGE		_@ <u>7,0</u>	100 9105
		– MANIFOLD _ <u> <u> </u></u>	60	@ @ <i>_400</i>	240,00
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To Allied Cementing Co., L		·	· · · · · · · · · · · · · · · · · · ·	@ @	
Vou are hereby requested to	rant companying aquirment			w.	

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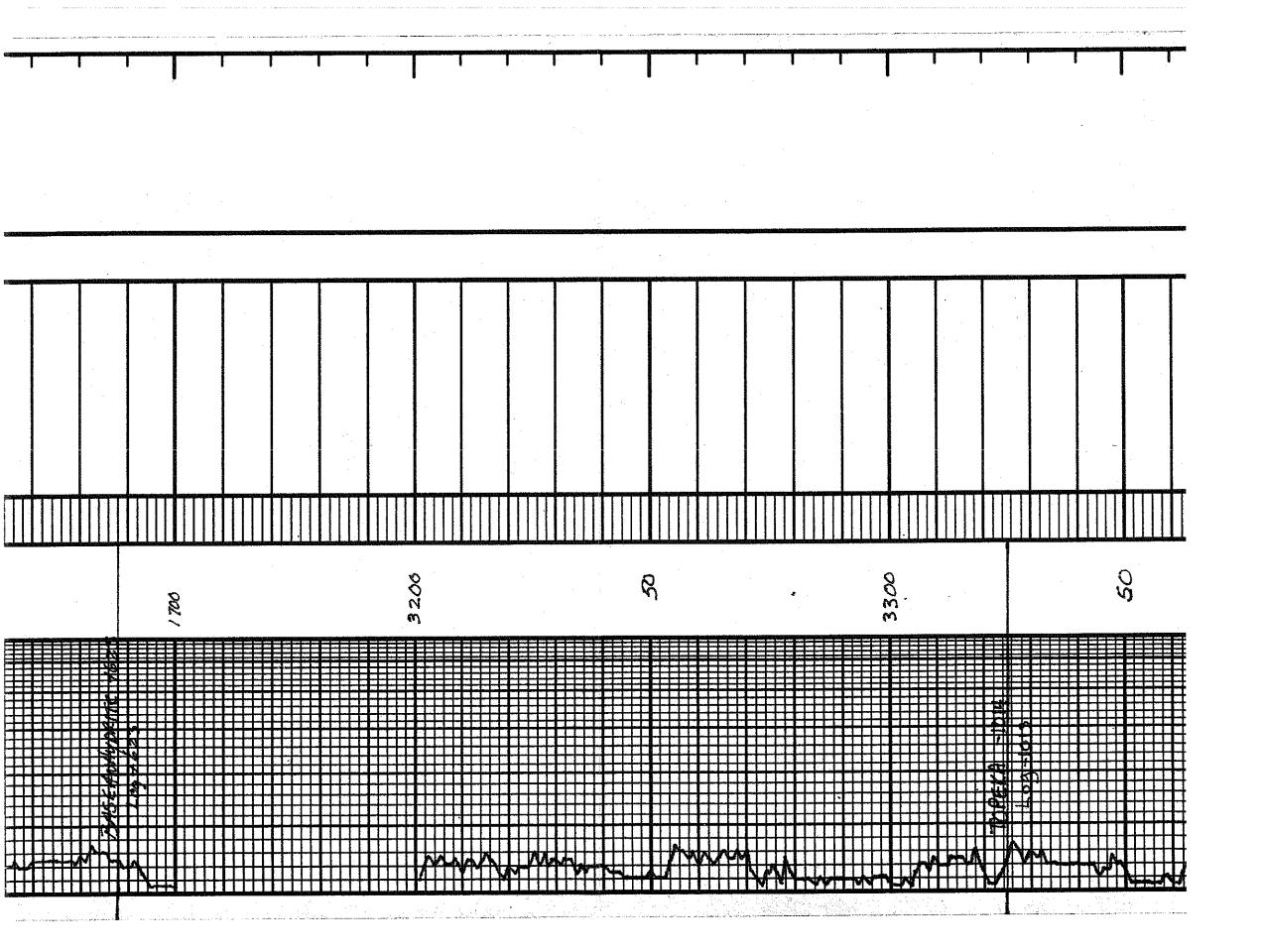
You are hereby requested to rent cementing equipment and furnish computer and helper(a) to assist owner or

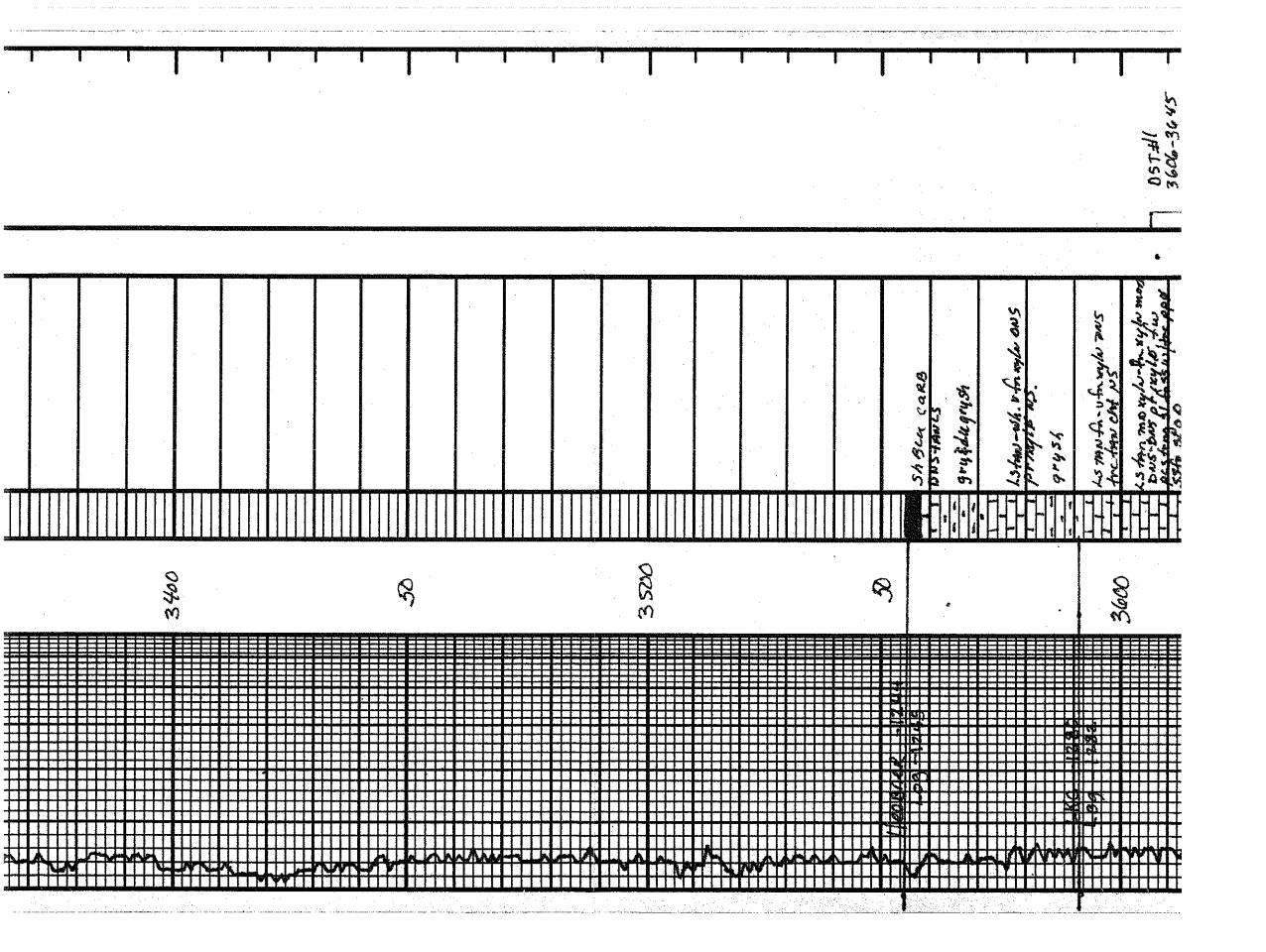
in Calcia	0.1	WELL NO.		LEASE DO	<u>Seru</u>	JOB TYPE	DATE 5 MAy 11 PAG
		VOLUME	PUMPS		L UNT	11-25 52LONGSTRING	TICKET NO. 201784
	(BPM)	(BBL) (GAL)	ТС	TUBING	CASING	DESCRIPTION OF OPERATION A	ID MATERIALS
						ON LOCATION	
1505				<b> </b>	ļ	START PIPE 5'3-14"	
			 	,		RIDE 4053 LTDE	24054
						SHOE JT 42.43'	
						DUTEOLONJT. \$57016	40
	·	ļ				CENTRALIZERS 1, 3, 5, 7, 9, 11 S	56
	ī.,				 	BASKET \$ 57	
1641					<u> </u>	Dese Phy Real	
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					100		
	10						
		99			11000	RECEASE VILLE START DISPL	ACEMENT
	····				1500	PLUE DOWN PRESSURE UP LA	TCA PLUG IN
7	<u> </u>		-				
	10	20					
	Q				300		
	<b>L</b>						(xz)
Í		00			200		
- 1	1.					WASHOUT PUMPING LINE	<u>5.</u>
		ND				RELEASE PLUG START DIS	PLACEMENT
	Ø	70			1500	PLUG DOWN FRESSUREUP CLI	DE DV TOOL
037						RELEASE PRESSURE-DRI	1
alin						CIRCULATE 20 SX CEMENT	TO SURFACE
242						WASH TRUCK	
							<u> </u>
915			-+			JOB COMPLETE	· · · · · · · · · · · · · · · · · · ·
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						THANKS B/10	<u> </u>
						JASON JERC RAR	
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	TIME 1420 1505 1505 1505 1705 1705 1708 1721 1721 1723 1752 1752 1753 1755	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TIME         RATE (BPM)         VOLUME (BBL) (GAL)           1420         -           1505         -           1505         -           1505         -           1041         -           1041         -           103         0           1041         -           1703         0           1705         0           1708         -           1721         -           1723         0           1724         -           1725         0           1724         -           1725         2           1724         -           1743         -           1743         -           1752         2           1752         2           1752         20           1752         20           1753         7.35           1800         -           1826         -           1938         -           1939         -           1939         -           1939         -           1939         -	TIME         RATE (BPM)         VOLUME (BBL) (GAL)         PUMPS T           1420         -         -         -         -           1505         -         -         -         -           1505         -         -         -         -           1505         -         -         -         -           1505         -         -         -         -           1505         -         -         -         -           1505         -         -         -         -           1505         -         -         -         -           1041         -         -         -         -           1705         6         20         -         -           1705         6         20         -         -           1721         -         -         -         -           1723         0         -         -         -           1742         -         -         -         -           1743         -         -         -         -           1752         2         20         -         -           1836	TIME         RATE (BPM)         VOLUME (BBL) (GAL)         PUMPS T         C         TUBING $1420$ -         -	TIME         RATE (BPM)         VOLUME (BBL)[GAL)         PUMPS T         PRESSURE (PSI)           1420         -	THERATE (BHM)PULLIEPULLIER PULLIER TRESUMPTION TO START PIPE CASHIGDESCRIPTION OF OPERATION AND DESCRIPTION OF OPERATION AND DESCRIPTION OF OPERATION AND DESCRIPTION OF OPERATION AND START PIPE START PIPE 

				·····	DAI	LY PEN	ETRATION		•		BIT	RECORD		
	Downing			GEOLOGIC	DATE		DEPTH	NO	SIZE	HAKE	TYPE	DEPTH OUT	FEET	HOU
Consulting Pe	troleum Geol	ogist				1			1					
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Phone: 620-428-13	56 (cell) 785-6	21-2286									[`			
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COMPANY Downing-Nelson (	u.C.Inc.													
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VELL RAL Unit \$ 1-25							· · · · · · · · · · · · · · · · · · ·		<u> </u>	<u> </u>				
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OCATION 1375 FSL \$ 75	FEL	PRODUCTION_		· · · · · · · · · · · · · · · · · · ·	ļ	<u> </u>	·		ļ	ļ				_ <b>_</b>
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••••••••••••••••••••••••••••••••••••••		Samples Saved From _3 Drilling Time From _3	200 1 To:	70				: :				<u></u>		
PERATOR DNOCI		Samples Examined From	3550 To-	72				,						
NTRACTOR DISCOVERY DRILLI	E Pratta	Geological Supervision	From 3550	To Totel Depth										
DAM: 4-28-11 COMP: 1	5-5-11	Weilsite Geologist Re	n Nels	an					,					<u> </u>
CASING RECORD		Electrical Surveys <u>50</u>	<u>aperior l</u>	Vell Svc				-						1
URF: 8% "@ 223" PROD: 5/	"C4053'	Duge Inou Densitu-Ad								. * •				
OTAL DEPTH DRILLERS: 4053		MICRO-SO												
OTAL DEPTH LOG 4054		744.00	<u> </u>								-			
FORMATION TO	PS AND STRU	ICTURAL POSI	TION											
FORMATION	SAMPLE	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL										ļ
TOP ANHUDRITE	1645	1646	+665	-6										
RASE ANHYORITE	1688	16.98	+623	FL										
OPERA	3325	332.4	-1013	+17			, ,		·					
HEEBNER.	3565	3556 -	-1245	+22									:	
икс Вис	<u>359/</u> <u>3845</u>	3593	-1282 -11534	+24		-		-	•					
MARMATON	3906	3900	-1598	+16										
CHEROKEE SHALE	3943	3943 -	-1632	+72					······································		•			
ARBUCKLE	3957	3956 -	1645	++23	· ·		н. Н			. ·				
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REFERENCE WELL FOR STRU	CTUDE A	Gappen Ga	HI Road										1	
REFERENCE WELL FUR SIKU	UIURE <u>/me</u>	Energy Ch.	C0001	- <u></u>	1									
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Section.

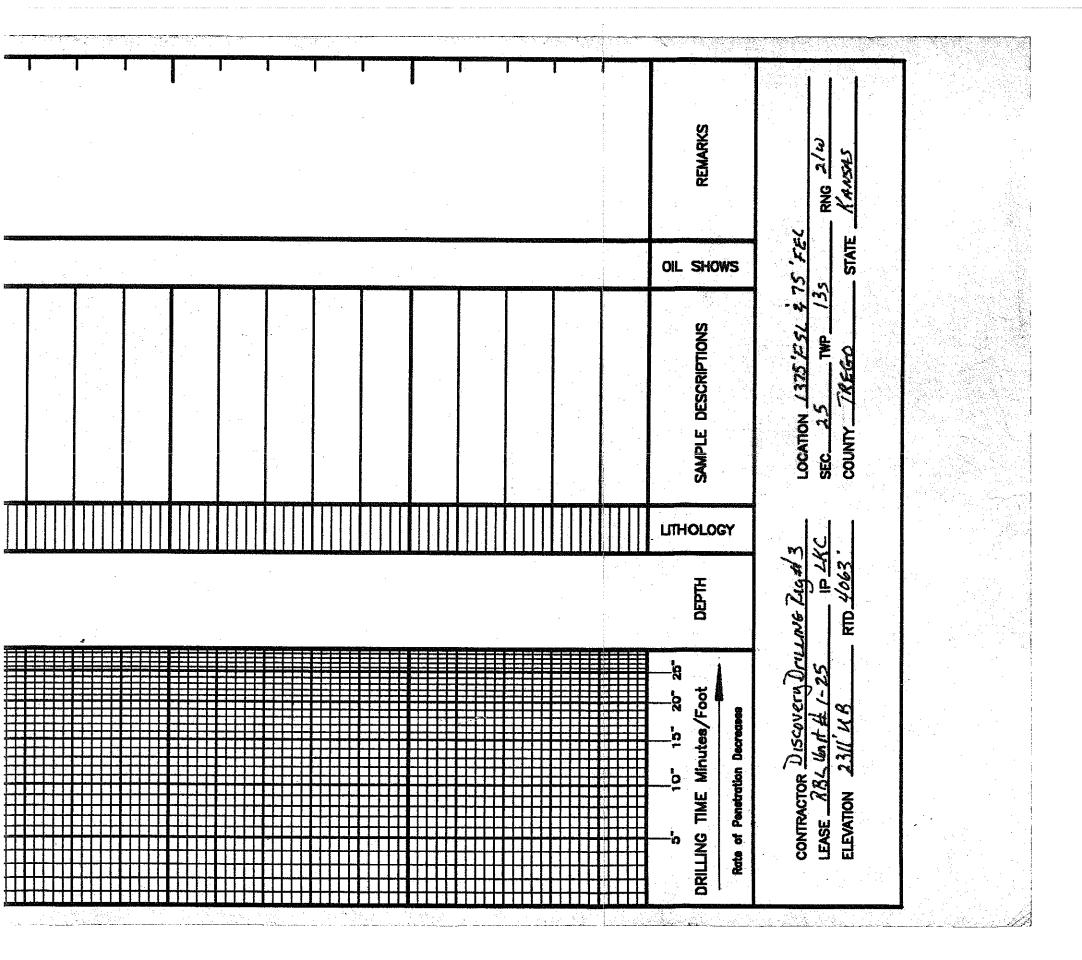
			· ·	DRILL S	TEM TES	STS					<b>1</b> (	1	I	ļ	
0.	interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Tise	( <del>18)-</del> FHH	RECOVERY								
		•							REMARKS						
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									LITHOLOGY						
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ARI	ks and recommenda	TIONS	ASED	ON 05	T'S EL	065. Te	AN 5% PRODUCTION								
2	ASING	l'OFF	Born	m Zor	ikc	zones	-C-E-J, Marmaton		2° S.						
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	<u></u>					17.	b. Ma	Anhydrite	2 5 8 7			╊┿┾┿╆			
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D ST # 4 D ST # 4 3910-3935 3910-3935 301-45-30 46 200 8035" 200 8005" 200 8	185:60 30:09.cm BHT 1/70 Gras 370 Pachea pulled loose & BHP Invalid on 125 S.F.		
\$\$ \$			
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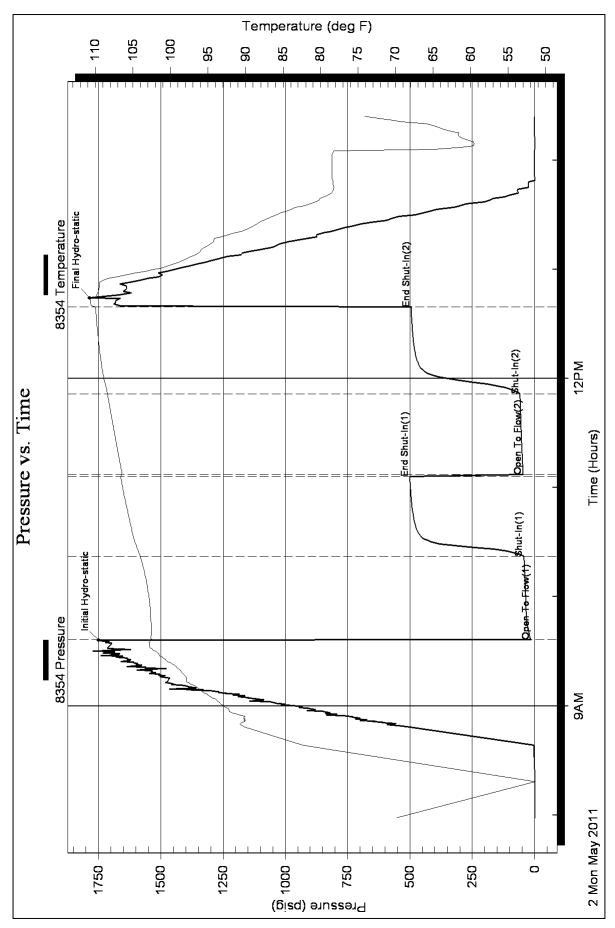
	DRILL S	STEMTES	ST REP	ORT				
RILOBITE	Dow ning-Nels	on Oil Co.		RB	L Unit #	1-25		
ESTING	1.0. Dox 1013			25/	13S/21W	/-Trego		
	Hays,Ks 6760	1		Job	Ticket: 42	798	DST	#:1
	ATTN: Ron N	lelson		Tes	t Start: 20	11.05.02 @	07:48:1	5
Total Depth: 3645.00 ft (K	3645.00 ft (KB) (T	VD)		Tes Unit	ter: [ No: 3 erence Ele	Convention Dustin Rasł 88 vations: 5 GR/CF:	n 2311. 2304.	Hole 00 ft (KB) 00 ft (CF) 00 ft
							7.	00 11
Start Date:2011.0Start Time:07:5	8:15 End Time	»: »:	2011.05.02 14:24:15	Capacity Last Calil Time On Time Off	o.: Btm: 2	2011.05.02 2011.05.02	2011.05. @ 09:35:	55
TEST COMMENT: IF-Weak b ISI-No Retu FF-Weak b FSI-No Re	rn. uilding blow . Built to ال							
Press 8384 Pressure	ire vs. Time					E SUMM		
	12PM	Temperature (deg F)	Time (Min.) 0 1 46 90 91 136 184 189	Pressure (psig) 1748.19 14.29 42.04 499.65 46.22 57.71 493.90 1783.76	104.02 106.62 106.48	Annotati Open To I Shut-In(1) End Shut- Open To I Shut-In(2) End Shut- Final Hydr	ro-static Flow (1) In(1) Flow (2) In(2)	
Recov	ery				Gas	s Rates		
Length (ft) Descrip		Volume (bbl)			Choke (ir	nches) Press	ure (psig)	Gas Rate (Mcf/d)
60.00 50%Mud/45%Wate		0.56						
30.00         75%Mud/20%Wate           6.00         80%Oil/15%Mud/5		0.42						
6.00 80%Oil/15%Mud/5	wvalei	0.08						
Trilobite Testina. Inc	Ref. No:	42709			Drintodu	2011.05.02		50 5 4

(Th-		DRI	LL STEM TEST REPOR	Г		FLUID SUMMARY
	RILOBITE	Dow ni	ng-Nelson Oil Co.	RBL Unit	#1-25	
	ESTING , INC		ox 1019 (s 67601	<b>25/13S/21</b> Job Ticket: 4	-	DST#:1
		ATTN:	Ron Nelson		2011.05.02 @ 07	
Mud and C	Cushion Information					
	Gel Chem		Cushion Type:		Oil API:	42 deg API
Mud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	52500 ppm
Viscosity:	82.00 sec/qt		Cushion Volume:	bbl		
Water Loss:	7.98 in <sup>3</sup> 0.12 ohm.m		Gas Cushion Type: Gas Cushion Pressure:	ncia		
Resistivity: Salinity:	3000.00 ppm		Gas Cushion Pressure:	psig		
Filter Cake:	inches					
Recovery I	nformation					
			Recovery Table	1	т	
	Leng ft	th	Description	Volume bbl		
		60.00	50%Mud/45%Water/5%Oil	0.559	<u>)</u>	
		30.00	75%Mud/20%Water/5%Oil	0.42	+	
		6.00	80%Oil/15%Mud/5%Water	0.084	<u>+</u>	
	Total Length:		.00 ft Total Volume: 1.064 bbl			
	Num Fluid Samp Laboratory Nan		Num Gas Bombs: 0 Laboratory Location:	Serial #	:	
	Recovery Com					
L			A-6 May 40700		0044.05.00	





DST Test Number: 1



Printed: 2011.05.02 @ 15:54:55 Page 3

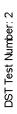
Ref. No: 42798

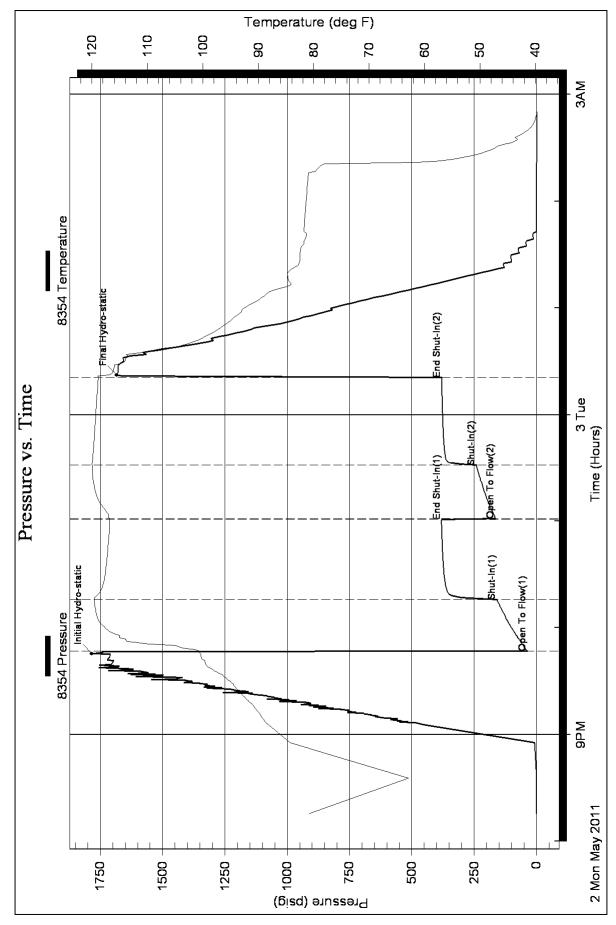
	DRILL STEM TES	TREP	ORT	
RILOBITE	Dow ning-Nelson Oil Co.		RBL Un	it #1-25
ESTING , IN	P.O. Box 1019		25/13S/2	21W-Trego
	Hays,Ks 67601		Job Ticket	:: 42799 <b>DST#:2</b>
	ATTN: Ron Nelson		Test Start	: 2011.05.02 @ 20:05:08
GENERAL INFORMATION:				
Formation:LKC EDeviated:NoWhipstock:Time Tool Opened:21:46:28Time Test Ended:02:50:08	ft (KB)		Test Type Tester: Unit No:	: Conventional Bottom Hole Dustin Rash 38
Interval:3649.00 ft (KB) ToTotal Depth:3670.00 ft (KB) (Hole Diameter:7.88 inches He				e Elevations: 2311.00 ft (KB) 2304.00 ft (CF) KB to GR/CF: 7.00 ft
	End Date: End Time:	2011.05.03 02:50:08 ds.	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.00 psig 2011.05.03 2011.05.02 @ 21:45:18 2011.05.03 @ 00:22:08
	5 seconds. BOB in 24 minutes.		PRESS	SURE SUMMARY
City Pressure 1700 170	5354 Temperature	Time (Min.) 0 2 31 76 76 106 156 156	Pressure         Ten           (psig)         (deg           1782.97         100           36.46         100           158.75         119           379.87         116           164.87         116           241.06         119           379.08         118	Annotation F) .38 Initial Hydro-static .00 Open To Flow (1)
Recovery				Gas Rates
Length (ft) Description	Volume (bbl)		Cł	oke (inches) Pressure (psig) Gas Rate (Mcf/d)
180.00         90%/Water/10%Mud           120.00         65%Water/30%Mud/5%	2.24 60il 1.68			
60.00 50%Mud/20%Water/20				
150.00 60%Oil/40%Gas	2.10			
0.00 930' G.I.P.	0.00			
Trilobite Testing, Inc	Ref. No: 42799		Drin	ted: 2011.05.03 @ 09:23:26 Page 1

		RILL STEM TEST REPO	RT	FL	JID SUMMAF
	DOV	v ning-Nelson Oil Co.	RBL Unit #	¢1-25	
EST I EST	BITE	. Box 1019	25/13S/21	N-Trego	
	Hay	vs,Ks 67601	Job Ticket: 42	-	ST#: 2
	AT	TN: Ron Nelson	Test Start: 20	011.05.02 @ 20:05	:08
Mud and Cushion In	iormation				
Mud Type: Gel Chem		Cushion Type:		Oil A PI:	41 deg API
Mud Weight: 9.00	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
iscosity: 50.00	sec/qt	Cushion Volume:	bbl		
Vater Loss: 8.78	in <sup>3</sup>	Gas Cushion Type:			
Resistivity: 0.11	ohm.m	Gas Cushion Pressure:	psig		
alinity: 3000.00	ppm				
ïlter Cake:	inches				
Recovery Informatio	n	Recovery Table			
	r	-		г	
	Length ft	Description	Volume bbl		
	-	0 000/ M/stor/100/ Mud		-	
	180.0 120.0		2.243	•	
	60.0		0.842	•	
	150.0		2.104	•	
	0.0		0.000	t	
N La	otal Length: um Fluid Samples: 0 aboratory Name: ecovery Comments:	Laboratory Location:	bbl Serial #:		
	-	-			









Printed: 2011.05.03 @ 09:23:27 Page 3

Ref. No: 42799

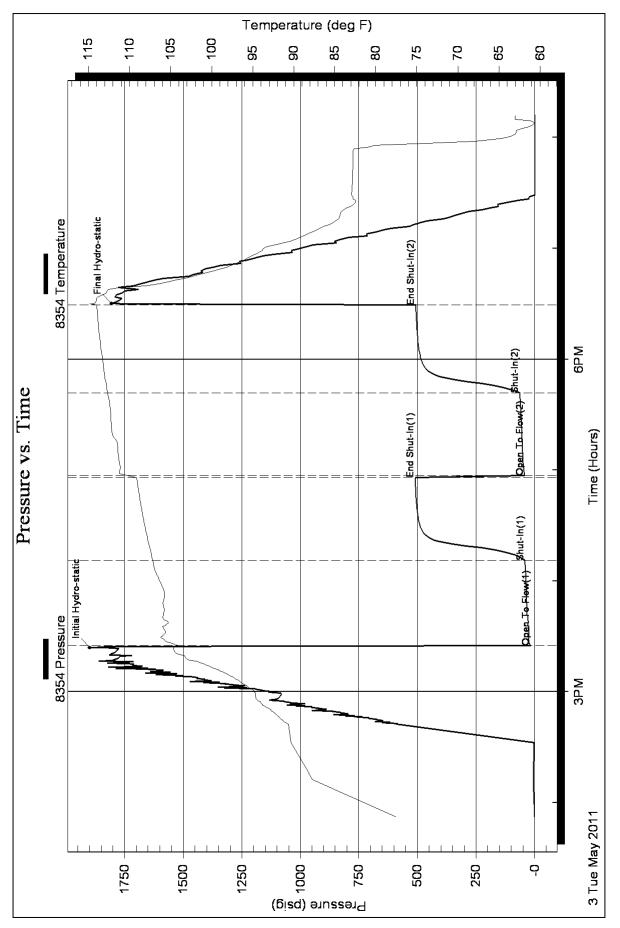
	DRILL STEM TES	T REP	ORT				
RILOBITE	Dow ning-Nelson Oil Co.		RB	L Unit #	1-25		
ESTING , INC	P.O. Box 1019 Hays,Ks 67601			<b>13S/21V</b> Ticket: 42	V-Trego	DST	·#. 2
	ATTN: Ron Nelson					@ 13:42:0	
GENERAL INFORMATION:							
Formation: LKC J Deviated: No Whipstock: Time Tool Opened: 15:24:36 Time Test Ended: 20:12:06	ft (KB)		Tes Tes Unit	ter: I	Conventio Dustin Ras 38	nal Bottom sh	Hole
Total Depth: 3792.00 ft (KB) (T	<b>792.00 ft (KB) (TVD)</b> VD) e Condition: Poor		Refe	erence Ele KB t	evations: to GR/CF:	2304	.00 ft (KB) .00 ft (CF) .00 ft
Serial #: 8354InsidePress@RunDepth:61.80 psigStart Date:2011.05.03Start Time:13:52:06TEST COMMENT:IF-Weak building ISI-No Return. FF-Weak building FSI-No Return.	End Date: End Time:	2011.05.03 20:12:06 nds.	Capacity: Last Calit Time On Time Off	o.: Btm: 2		8000. 2011.05 3 @ 15:23 3 @ 18:30	:46
Pressure vs.	Time		PF	RESSUF	RE SUMI	MARY	
3 Tue May 2011	- 70	Time (Min.) 0 1 47 92 93 138 186 187	Pressure (psig) 1897.77 16.40 40.35 508.88 42.22 61.80 505.60 1805.73	110.29	Open To Shut-In(1 End Shut Open To Shut-In(2 End Shut	dro-static Flow (1) I) t-In(1) Flow (2) 2)	
Recovery				Ga	s Rates		
Length (ft)         Description           120.00         50%Gas/35%Oil/10%Mt           0.00         434' G.I.P.	Volume (bbl) ud/5%Water 1.40 0.00			Choke (i	inches) Pres	ssure (psig)	Gas Rate (Mcf/d)

	RILOBI	ITE	Deveni	ng-Nelsor			RBL Unit	#1_25	FLUID S	
	<b>T</b> ESTI	NG , INC.								
	1 -011			ox 1019 Ks 67601			25/13S/21	-	DST#:3	
			ATTN:	Ron Nel	son			2011.05.03 @ <sup>-</sup>		
lud and Cu	shion Info	ormation								
lud Type: Ge lud Weight:					Cushion Type: Cushion Length:		ft	Oil API: Water Salinity	<i>'</i> :	deg API ppm
iscosity: /ater Loss:	50.00 s 8.78 in	ec/qt		C	Cushion Volume:		bbl	,		
esistivity: alinity:	o 5000.00 p	hm.m pm			Gas Cushion Type: Gas Cushion Pressu	re:	psig			
ilter Cake:		nches								
lecovery Inf	formation			F	Recovery Table					
		Leng ft	th		Description		Volume bbl	]		
			120.00 0.00	1	s/35%Oil/10%Mud/5	%Water	1.40 <sup>2</sup> 0.000			
	l Tota	l al Length:		434' G.	Total Volume:	1.401 bbl	0.000	싀		
	Lab	m Fluid Samp poratory Nan covery Comr	ne:		Num Gas Bombs: Laboratory Locat		Serial #			
	Lab	ooratory Nan	ne:							
	Lab	ooratory Nan	ne:							
	Lab	ooratory Nan	ne:							
	Lab	ooratory Nan	ne:							
	Lab	ooratory Nan	ne:							
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	Lab	ooratory Nan	ne:							
	Lab	ooratory Nan	ne:							
	Lab	ooratory Nan	ne:							





DST Test Number: 3



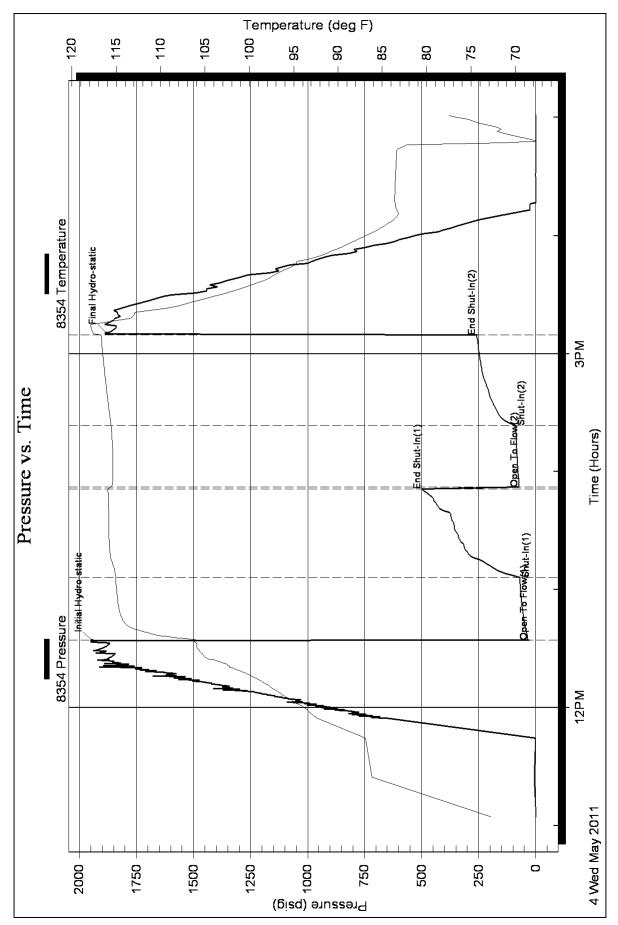
Printed: 2011.05.03 @ 20:42:14 Page 3

Ref. No: 42800

Dow Impresent of Co.       KBL UNIT #1-25         Dow Impresent of Co.       P.O. Box 1019 Hays.Ks 67601       25/135/21W-Trego Job Ticket: 42876       DST#: 4         ATTN: Ron Nelson       Test Start: 2011.05.04 @ 10.54:15       GENERAL INFORMATION:         Formation:       LKC       Deviated:       No. Whipstock:       ft (KB)       Test Type:       Conventional Bottom Hole         Time Tool Opened: 12:33:55       Time Tool Opened: 12:33:55       Unit No:       38         Total Depth:       3935.00 ft (KB) (TVD)       Reference Elevations:       2311.00 ft (KB)         Serial #:       8354       Inside       Pool Serial #:       2011.05.04       East Calib::       2011.05.04         Start Date:       2011.05.04       End Date:       2011.05.04       East Calib::       2011.05.04 @ 12:33.45         Time On Birr:       F:Strong building blow. BOB in 4 minutes 40 seconds.       Est-Surging surface return @ 45 seconds.       Est-Surging function for (psig)       (mon) (m	RILOBITE	DRILL STEM	TES	TREP	ORT					
Heys, Ks 67801     Job Ticket 42876     DST#.4       ATTN: Ron Nelson     Test Start: 2011.05.04 @ 10:54:15       GENERAL INFORMATION:       Formation:     LKC       Deviated:     No     Whipstock:     ft (KB)       Time Tool Opend: 12:33:55     Time Start:     Dust in Resh       Time Tool Opend: 12:33:55     Unit No:     38       Interval:     3910.00 ft (KB) (TVD)     Reference Elevations:     2311.00 ft (KB)       Total Depth:     3955.00 ft (KB) (TVD)     Reference Elevations:     2311.00 ft (KB)       Start Date:     211.05.04     End Date:     2011.05.04 @ 12:33:45       Time:     11:06:15     End Date:     2011.05.04 @ 12:33:45     Time On Birr:     2011.05.04 @ 12:33:45       Time:     11:00:15     End Date:     2011.05.04 @ 12:33:45     Time Of Birr:     2011.05.04 @ 12:33:45       Time:     11:00:15     ET     COMMENT:     F:Strong building blow. BOB in 4 minutes 40 seconds.     Bit 10 10 inches.     FSH:No Return.       Time Time Time Time Time Time Time Time					RB	L Unit #	1-25			
ATTN: Ron Nelson         Test Start: 2011.05.04 @ 10:54:15           GENERAL INFORMATION: Formation:         Exercise 17:00:45         Test Type:: Conventional Bottom Hole           Time Test Ended:: 17:00:45         Test Type:: Conventional Bottom Hole         Tests: Rash           Time Test Ended:: 17:00:45         Unit No:: 33         Test Start: 2011.05.04 @ 10:56:15           Serial #: 3910.00 ft (KB) To 3935.00 ft (KB) (TVD)         Reference Eevations:: 2311.00 ft (KB)           Total Depth::         3350.00 ft (KB) (TVD)         Reference Eevations:: 2311.00 ft (KB)           Serial #: 38354         Inside         2001.05.04         End Date::           Press @RunDepth:         87.69 psig @ 3912.00 ft (KB)         Capacity::         8000.00 psig           Start Ente::         2011.05.04 End Date::         2011.05.04 End Date::         2011.05.04 @ 15:10:15           STS COMMENT:         F-Strong building blow. BOB in 4 minutes 40 seconds.         Suit to 10 inches.         FF-Weak building blow. Built to 10 inches.           FS-No Return.         FS-No Return.         Time Of Birz         2011.05.04 @ 15:10:15           Total # work = 10         Start = 10         Start = 10         Start = 10           Start Time:         11:04:16         Time Of Birz         2011.05.04 @ 15:10:15           Test Conventional Bottom thole         Time Of Birz         2011.05	ESTING , M	1.0. DOX 1010			25/	13S/21V	V-Trego			
GENERAL INFORMATION: Formation:         Conventional Bottom Hole           GENERAL INFORMATION: Formation:         Conventional Bottom Hole           Deviated:         No         Whipstock:         ft (KB)         Test Type::         Conventional Bottom Hole           Time Tool Opened:         12:33:55         Taster:         Dustin Rash         Taster:         Dustin Rash           Time Test Ended:         17:00:45         Unit No:         38           Interval:         3910.00 ft (KB) To         3935.00 ft (KB) (TVD)         Reference Elevations:         2311.00 ft (KB)           Serial #:         3011.05.04         End Date:         2011.05.04         End Date:         2011.05.04         End Date:         2011.05.04 @ 15:10:15           Start Time:         11:00:15         ETST COMMENT:         F-Strong building blow. BOB in 4 minutes 40 seconds.         Built to 10 inches.         FF         PRESSURE SUMMARY           Time Off Birn:         2011.05.04 @ 15:10:15         Time Off Birn:         2011.05.04 @ 15:10:15         Time Off Birn:         2011.05.04 @ 15:10:15           TEST COMMENT:         F-Strong building blow. BolB in 4 minutes 40 seconds.         Built to 10 inches.         FF         Maintain Hydro-static           Time Off Birn:         2011.05.04         15:57         Shut-h(1) </td <td></td> <td>Hays,Ks 67601</td> <td></td> <td></td> <td>Job</td> <td>Ticket: 42</td> <td>2876</td> <td>DST</td> <td>#: 4</td>		Hays,Ks 67601			Job	Ticket: 42	2876	DST	#: 4	
Formation:       LKC         Deviated:       No.       Whipstock:       ft (KB)       Test Type:       Conventional Bottom Hole         Time Tool Opened:       12:33:55       Test Type:       Conventional Bottom Hole       Test Type:       Conventional Bottom Hole         Time Test Duble       77:00 tr       393:00 ft (KB) To       230:00 tt (KB)       230:00 tt (KB)         Total Depth:       393:00 ft (KB) TO       230:00 tt (KB)       230:00 tt (KB)         Pleb Dameter:       7.88 inchesh NDC       Reference Elevations:       2311.00 ft (KB)         Start Date:       2011.05.04       End Date:       2011.05.04       East Calib.:       2011.05.04 @ 12:33.45         Start Time:       11:04:15       End Time:       17:00:45       Time Off Bm:       2011.05.04 @ 12:33.45         TEST COMMENT:       F-Strong building blow. BOB in 4 minutes 40 seconds.       Bit to 10 inches.       FB-No Return.         TEST Comment:       FS-No Return.       Time       Mandation       Mandation         Time off Bm:       2011.05.04       116:00 Open To Flow (1)       23:01 10:15       Time Off Bm:       20:01 10:50         Time off Bm:       20:01 10:50       115:60 Open To Flow (2)       116:57       Shut-h(1)       77:71       78:72:05       115:60 Open To Flow (2)		ATTN: Ron Nelson			Tes	t Start: 20	011.05.04	@ 10:54:1	5	
Serial #: 8354       Inside         Perse @ RunDepth:       87.69 psig       @ 3912.00 ft (KB)       Capacity::       8000.00 psig         Start Date:       2011.05.04       End Date:       2011.05.04       Imme On Birn:       2011.05.04 @ 12:33.45         Start Time:       11:04:15       End Time:       17:00:45       Time On Birn:       2011.05.04 @ 16:10:15         TEST COMMENT:       F-Strong building blow. BOB in 4 minutes 40 seconds.       BS built to 10 inches.       FS-Weak building blow. Built to 10 inches.         FSI-No Return.       FWeak building blow. Built to 10 inches.       FSI-No Return.       Time Or Birn:       2011.05.04       Q Inchastron         Time Or Birn:       2011.05.04       Instart       Time Or Birn:       2011.05.04       Q Inchastron         Time Or Birn:       2011.05.04       Instart       Time Or Birn:       2011.05.04       Q Instart         Time Or Birn:       2011.05.04       Instart       Time Or Birn:       2011.05.04       Q Instart         Time Or Birn:       2011.05.04       Instart       Time Or Birn:       2011.05.04       Q Instart         Time Or Birn:       2011.05.04       Instart       Time Or Birn:       2011.05.04       Q Instart         Instart       Instart       Instart       Instart	Deviated: No Whipstock Time Tool Opened: 12:33:55 Time Test Ended: 17:00:45 Interval: 3910.00 ft (KB) To	3935.00 ft (KB) (TVD)			Tes Unit	ter: No:	Dustin Ras 38	:h 2311.	00 ft (KB)	
Press@RunDepth:       87.69 psig       3912.00 ft (KB)       Capacity:       8000.00 psig         Start Date:       2011.05.04       End Date:       2011.05.04       Last Calib.:       2011.05.04       2011.05.04         Start Time:       11:04:15       End Time:       17:00.45       Time On Bim:       2011.05.04       21:05.04 </td <td>Hole Diameter: 7.88 inchesh</td> <td>ole Condition: Poor</td> <td></td> <td></td> <td></td> <td>KB t</td> <td>to GR/CF:</td> <td>7.</td> <td>.00 ft</td>	Hole Diameter: 7.88 inchesh	ole Condition: Poor				KB t	to GR/CF:	7.	.00 ft	
FF-Weak building blow . Built to 10 inches. FS-No Return.         Pressure vs. Time       PRESSURE SUMMARY         OPENET VS. Time       Time <th cols<="" td=""><td>Press@RunDepth: 87.69 psi Start Date: 2011.05.0 Start Time: 11:04:1 TEST COMMENT: IF-Strong build</td><td>End Date: End Time:</td><td>) secon</td><td>17:00:45 ds.</td><td>Last Cali Time On</td><td>b.: Btm: :</td><td></td><td>2011.05 4 @ 12:33:</td><td>.04 45</td></th>	<td>Press@RunDepth: 87.69 psi Start Date: 2011.05.0 Start Time: 11:04:1 TEST COMMENT: IF-Strong build</td> <td>End Date: End Time:</td> <td>) secon</td> <td>17:00:45 ds.</td> <td>Last Cali Time On</td> <td>b.: Btm: :</td> <td></td> <td>2011.05 4 @ 12:33:</td> <td>.04 45</td>	Press@RunDepth: 87.69 psi Start Date: 2011.05.0 Start Time: 11:04:1 TEST COMMENT: IF-Strong build	End Date: End Time:	) secon	17:00:45 ds.	Last Cali Time On	b.: Btm: :		2011.05 4 @ 12:33:	.04 45
Imme       Pressure       Length (ft)       Description       Volume (bb)         30.00       40%Oll/40%Mud/20%Gas       0.15       15         185.00       50%Oll/50%Gas       2.59	FF-Weak build FSI-No Return Pressure v	ng blow . Built to 10 inches.								
Length (ft)         Description         Volume (bbl)           30.00         40%Oil/40%Mud/20%Gas         0.15           185.00         50%Oil/50%Gas         2.59			1115 Temperature (deg F)	(Min.) 0 1 32 77 78 110 156	(psig) 1943.61 29.81 69.48 497.37 72.05 87.69 256.56	(deg F) 106.23 105.16 115.05 115.93 115.60 115.57 116.70	Initial Hyd Open To Shut-In(1 End Shut Open To Shut-In(2 End Shut	dro-static Flow (1) ) :-In(1) Flow (2) 2) :-In(2)		
30.00     40%Oil/40%Mud/20%Gas     0.15       185.00     50%Oil/50%Gas     2.59	Recovery					Ga	s Rates			
185.00 50%Oil/50%Gas 2.59			$\Box$			Choke (i	inches) Pres	sure (psig)	Gas Rate (Mcf/d)	
			_							
			-							
	270 O.I.F.	0.00	$\rightarrow$							
			$\neg$							

Con-		DRI	LL STEM TEST REPOR	RT	FLUID SUMMARY
	RILOBITE	Dow nir	ng-Nelson Oil Co.	RBL Unit #1-25	
	ESTING , INC		ox 1019 Ks 67601	25/13S/21W-Treg	
			Ron Nelson	Job Ticket: 42876 Test Start: 2011.05.0	DST#:4
. Weatter		ATTN.	RUIT NEISUIT	Test Start. 2011.05.0	4 @ 10.54.15
	shion Information				
Mud Type: Gi Mud Weight: Viscosity: Water Loss: Resistivity:	el Chem 9.00 lb/gal 51.00 sec/qt 9.58 in <sup>3</sup> ohm.m		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	Oil API: ft Water Sa bbl psig	37 deg API alinity: ppm
Salinity: Filter Cake:	6000.00 ppm inches				
Recovery In	normation		Recovery Table		
	Leng ft	th	Description	Volume bbl	
		30.00	40%Oil/40%Mud/20%Gas	0.148	
		185.00 0.00	50%Oil/50%Gas 275' G.I.P.	2.586	
	Total Length:		5.00 ft Total Volume: 2.734 b		
	Num Fluid Samp Laboratory Nan Recovery Com	ne:	Num Gas Bombs: 0 Laboratory Location:	Serial #:	





Printed: 2011.05.05 @ 08:16:48 Page 3

Ref. No: 42876