

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1052291

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:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from Fast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
	Field Name:
Wellsite Geologist:	
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW	Amount of Surface Pipe Set and Cemented at: Feet
Gas D&A ENHR SIGW	Multiple Stage Cementing Collar Used?
OG GSW Temp. Abd.	If yes, show depth set: Feet
CM (Coal Bed Methane)	If Alternate II completion, cement circulated from:
Cathodic Other (Core, Expl., etc.):	feet depth to:w/sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator:	Drilling Fluid Menogeneet Dien
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Chloride content: ppm Fluid volume: bbls
Conv. to GSW	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	
SWD Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R East West
GSW Permit #:	County: Permit #:
Spud Date or Date Reached 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	
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	gical Survey	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 No	ew Used ermediate, product	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 F Each Interval		e			ement Squeeze Record d of Material Used)	Depth	
TUBING RECORD:	Si	ze:	Set At:		Packer	r At:	Liner R	un:	No		
Date of First, Resumed F	Product	ion, SWD or ENHF	λ .	Producing N		ping	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity /AL:	
DISPOSITION OF GAS:		GAS:			METHOD	OF COMPLE	TION:		PRODUCTION INTER	RVAL:	
Vented Sold Used on Lease				Open Hole	Perf.	Dually (Submit)		Commingled (Submit ACO-4)			
(If vented, Sub	mit ACC)-18.)		Other (Specify)							

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	IFS Unit 1-19
Doc ID	1052291

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Denisty Neutron

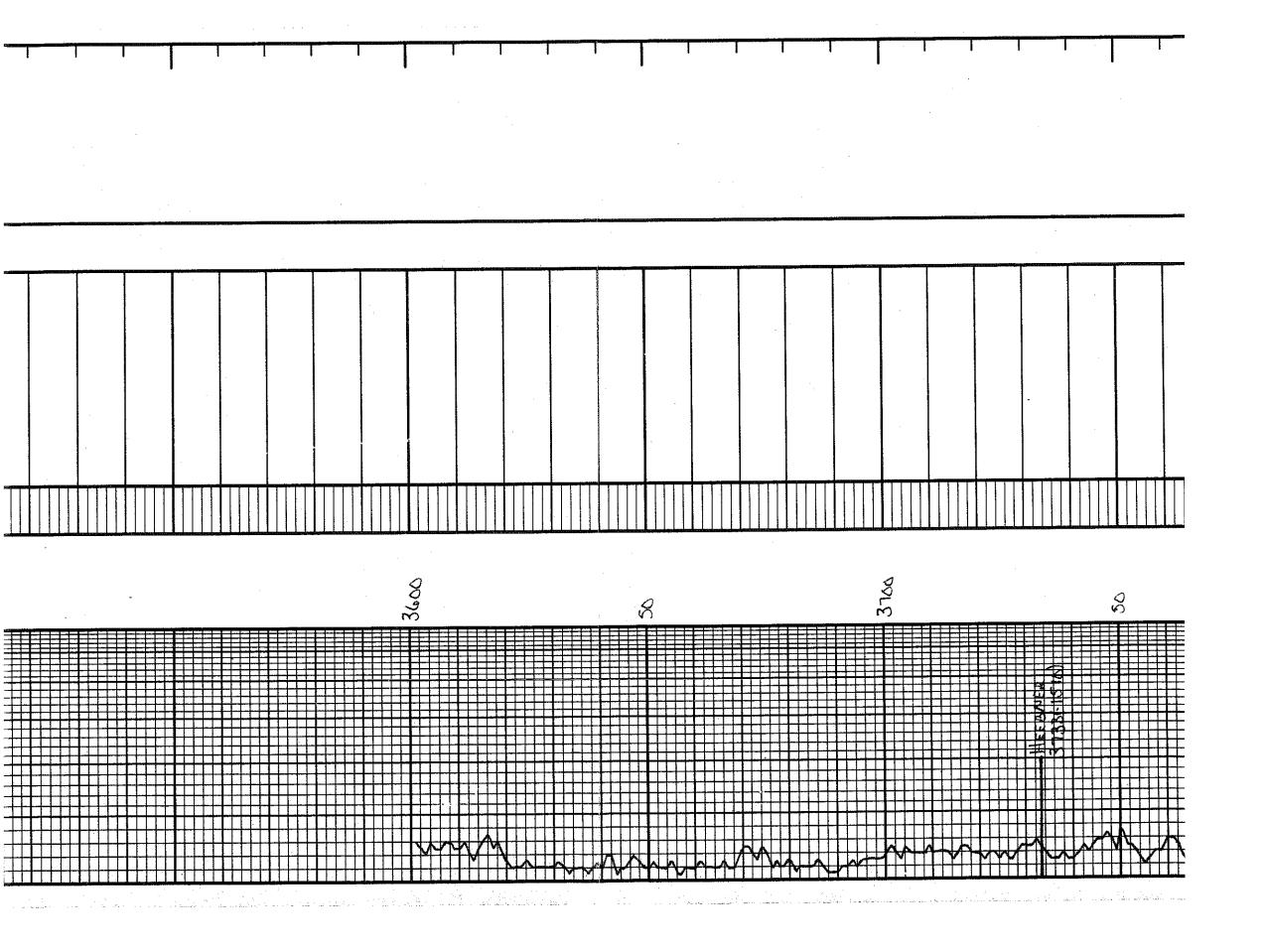
Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	IFS Unit 1-19
Doc ID	1052291

Tops

Name	Тор	Datum
Top Anhydrite	1410	+813
Base Anhydrite	1439	+784
Heebner	3733	-1510
LKC	3782	-1559
ВКС	4100	-1877
Fort Scott	4286	-2063
Cherokee Shale	4303	-2080
Mississippi/Osage	4365	-2142

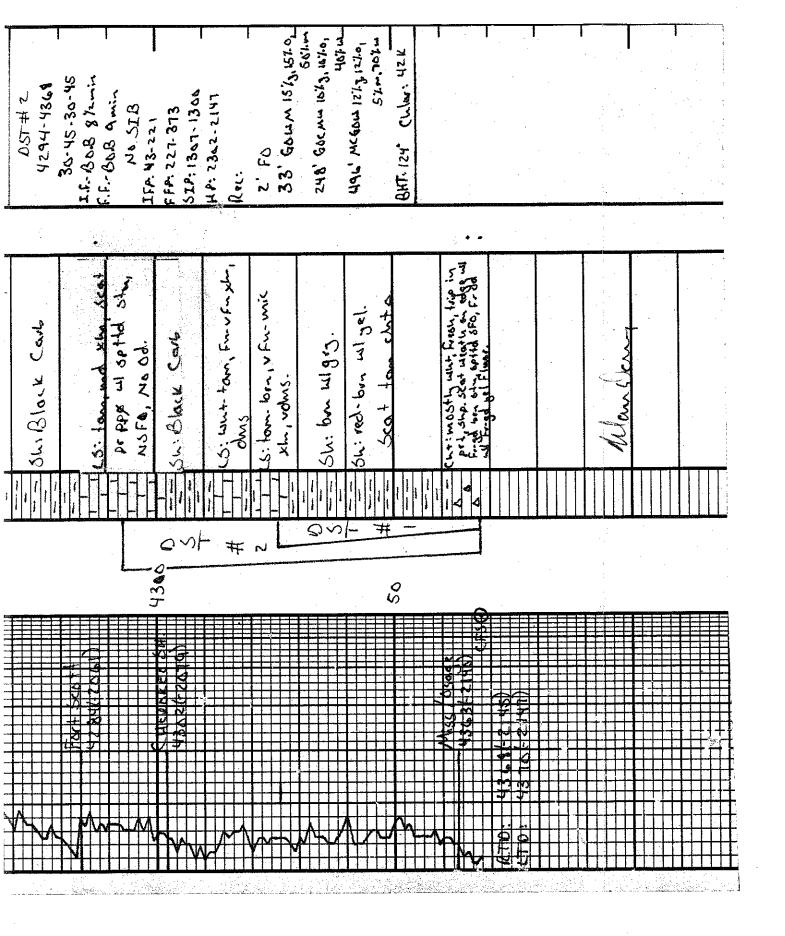
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CONSULTING PETRO)GIST		REPORT	·								-
3322 LINCO					┣────┼	. <u></u>							
HAYS, KANS	AS 67601			LOG	+								
PHONE: 785-	-628-3449												
COMPANY Downing - Nelson O	il Ca. Inc		7657	<u>'ow</u>		······							
		· · · ·		-		<u></u>				<u></u>			
NEIL IFS # 1-19			9					<u> </u>					
FIELD Wildcat		DODUCTION											
OCATION 2648' FNL + 120		PRODUCTION .									_	[_
SEC_19TWPZOSR	GE ZOW	ELEVATION	K <u>B ک</u> DF	(())		. <u></u>				+			
COUNTY Parsner			GI Z	215									
STATE Kansas		Drilling Measured From	KB		FORMATION	NTERWAL			DESCRIPTION O	FSHOW			WLYSIS SW
STATE	i	Samples Soved from Drilling Time From	<u>4100</u> To: .	TA									
N AND C T		Drilling Time From Samples Examined From	10: .	TO									
PERATOR DIALAURE Drilling	and a second	Geological Supervision	From 3400	To Total Depth									
ONTRACTOR Discovery Drilling, OMM: 2-19-11 COMP: 2-		Wellaits Geologist 📝	Marc Day	wring			_						
CASING RECORD		Electrical Surveys	Lag- rech										
URF: 15/15 @ 521 PROD: 51/2"	@ 4366	014	<u> </u>										
DTAL DEPTH DRILLERS: 436		MEL			· · · · · · · · · · · · · · · · · · ·								
DTAL DEPTH LOG43-16		Source											
FORMATION TOPS													
FORMATION	SAMPLE	ELECTRIC LOG	DATUM	STRUCTURAL POSITION							<u> </u>		+
Top Anhydrite	AN A	1410	+813	14 NA								· ·	
Bake Ambydrite		- 1337	FO+ 4										
HEERNER	3133	3733	-1516	+7			_					1	+
BKC	3782	3782	-1004	+5									
Fort Scott	4284	4286	-2063	+12									
CHERNLEE SH	4302	4303	-2080	+10									
Miss / Osag R	4363	4365	-2142	+/									
							+					1	
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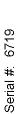


RILOBITE	DRILL STEM TES	T REP	ORT		
	DNOC		IFS L	Jnit 1-19	
ESTING , INC	P.O. Box 372		19/20	S/20W-Paw	nee
	Hays,Ks 67601		Job Tio	cket: 41843	DST#: 1
	ATTN: Marc Dow ning		Test S	tart: 2011.02.2	24 @ 21:34:10
GENERAL INFORMATION:					
Formation:MissispianDeviated:NoWhipstock:Time Tool Opened:02:11:4U	ft (KB)		Test T Tester Unit No	: Dustin F	tional Bottom Hole Rash
Interval:4326.00 ft (KB) To43Total Depth:4368.00 ft (KB) (TvHole Diameter:7.88 inches Hole			Refere	ence Elevations KB to GR/C	2213.00 ft (CF)
Serial #: 6719 Press@RunDepth: psig Start Date: 2011.02.24 Start Time: 21:34:15 TEST COMMENT: IF-Misrun.	@ ft (KB) End Date: End Time:	2011.02.25 02:11:39	Capacity: Last Calib.: Time On Btr Time Off Bt	m: 2011.02	8000.00 psig 2011.02.25 2.24 @ 23:49:40 2.25 @ 00:02:40
Pressure vs. Ti	me		PRE	SSURE SU	MMARY
2500	6719 Temperature	Time	Pressure	Temp Ann	otation
2000 100 1000 1	Temperature 100 -00 -70 -70 -70 -70 -70 -70 -70 -70 -	(Min.) 0 13	2264.16		Hydro-static Hydro-static
Recovery			·	Gas Rate	25
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psig) Gas Rate (Mcf/d)
	· •				

			DRILL S	STEM TEST RE	PORT	-		FLUID S	UMMAF
Hays,Ks 67601 Job Ticket: 41843 DST#:1 ATTN: Marc Dow ning Test Start: 2011.02.24 @ 21:34:10 Mud and Cushion Information Mud Type: Gel Chem Oil API: Oil API: <t< th=""><th></th><th></th><th>DNOC</th><th></th><th></th><th>IFS Unit</th><th>1-19</th><th></th><th></th></t<>			DNOC			IFS Unit	1-19		
ATTN: Marc Dow ning Test Start: 2011.02.24 @ 21:34:10 Mud and Cushion Information Mud Type: Gel Chem Oil API: Oil API: Oil API: Oil API: Mud Veight: 9.00 lb/gal Cushion Type: Oil API: Oil API: Oil API: Oil API: Mud veight: 9.00 lb/gal Cushion Volume: bbl bbl Water Loss: 9.18 in³ Gas Cushion Type: Resistivity: ohm.m Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 3800.00 ppm Filter Cake: inches Recovery Information Recovery Table Total Length: ft Total Length: ft Total Volume: bbl Num Fluid Samples: 0 Num Gas Bornbs: 0 Serial #: Laboratory Name: Laboratory Location: Serial #:						19/20S/20	W-Pawnee		
Mud and Cushion Information Mud Type: Gel Chem Cushion Type: Oil API: or Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: p Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: p Viscosity: 61.00 sec/qt Cushion Volume: bbl bbl Water Loss: 9.18 in ³ Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 3800.00 ppm Filter Cake: inches P P Recovery Information Fleeovery Table Length Description Volume bbl Image: Image: Image: Image: Image: Total Length: ft Total Volume: bbl Num Fluid Samples: 0 Num Gas Bornbs: 0 Serial #: Laboratory Name: Laboratory Location: Image: Image: Image:			Hays,Ks 6760	1		Job Ticket: 4	41843	DST#:1	
Mud Type: Gel Chem Cushion Type: Oil API: of Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: p Viscosity: 61.00 sec/qt Cushion Volume: bbl Water Loss: 9.18 in ³ Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 3800.00 ppm Filter Cake: inches Recovery Information Recovery Information Total Length ft Total Volume: bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:			ATTN: Marcl	Dow ning		Test Start: 2	2011.02.24 @ 2	21:34:10	
Wud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: p Viscosity: 61.00 sec/qt Cushion Volume: bbl bbl Water Salinity: psig Nater Loss: 9.18 in ³ Gas Cushion Type: gsig Salinity: psig Salinity: 3800.00 ppm	Mud and Cushior	n Information							
Viscosity: 61.00 sec/qt Cushion Volume: bbl Nater Loss: 9.18 in ³ Gas Cushion Type: Resistivity: ohm.m Gas Cushion Pressure: psig Salinity: 3800.00 ppm Filter Cake: inches Recovery Information Recovery Table Length Description Volume ft Description Volume bbl Total Length: ft Total Volume: bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:									deg API
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ft bbl Total Length: ft Total Volume: bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Serial #:				Recovery Table			-		
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Num Fluid Samples: 0Num Gas Bombs: 0Serial #:Laboratory Name:Laboratory Location:]		
Laboratory Name: Laboratory Location:									
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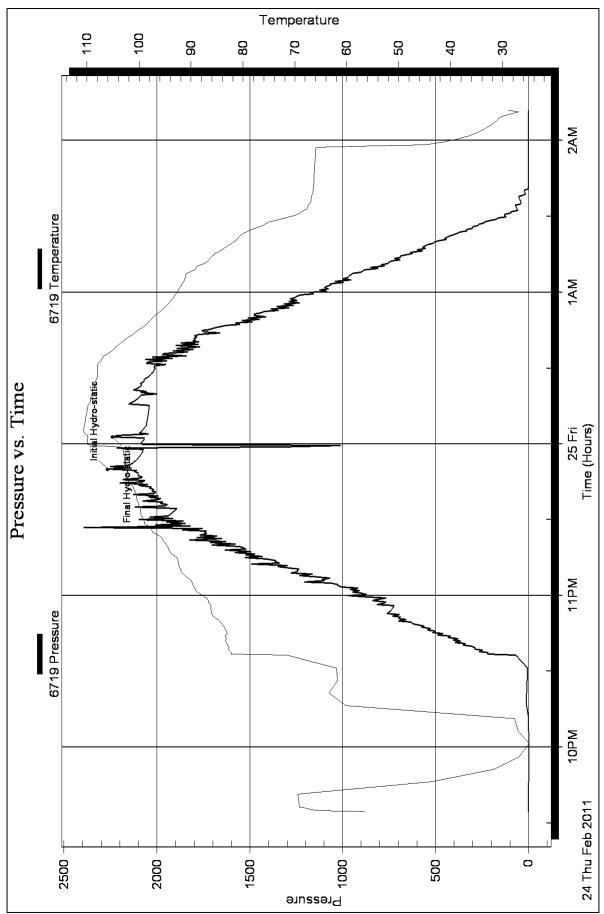






DNOC





Trilobite Testing, Inc

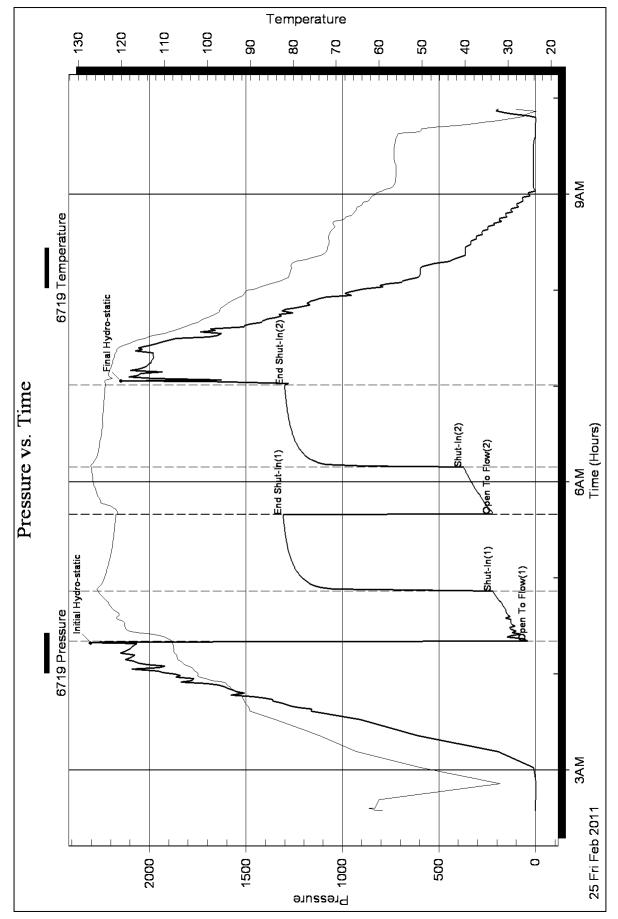
(DA	RILOBITE	DRILL STEM T	ES	T REP	ORT			
		DNOC			IFS	6 Unit 1	-19	
	ESTING , INC	1.0. DOX 072			19/	20S/20V	/-Pawnee	
		Hays,Ks 67601			Job	Ticket: 41	844 DST#: 2	2
		ATTN: Marc Dow ning			Tes	t Start: 20	11.02.25 @ 02:34:10	
JENERAL I	INFORMATION:							
	Mississippian No Whipstock: ened: 04:20:10 ed: 09:52:40	ft (KB)			Tes	ter: [Conventional Bottom Ho Dustin Rash 47	e
nterval: Fotal Depth: Hole Diameter:	4294.00 ft (KB) To 43 4368.00 ft (KB) (TV 7.88 inchesHole				Ref	erence Ele KB t	evations: 2219.00 2213.00 o GR/CF: 6.00	ft (CF)
Serial #: 6 Press@RunDe Start Date: Start Time:		@ 4296.00 ft (KB) End Date: End Time:		2011.02.25 09:52:39	Capacity Last Cali Time On Time Off	b.: Btm: 2	8000.00 2011.02.25 2011.02.25 @ 04:19:10 2011.02.25 @ 07:03:10	psig
EST COM	ISI-No Return.	g blow . BOB in 8 minutes 20 s ng blow . BOB in 9 minutes.	econ	ds.				
	Pressure vs. 7	_			PI	RESSUR	E SUMMARY	
2000 1000 500 600 600 500 500 500 500	57/0 Presure	67/19 Temperature	- 130 - 110 - 100 - 00 - 00 - 00 - 00 - 00 -	Time (Min.) 0 1 33 80 81 110 162 164	Pressure (psig) 2302.40 42.50 221.32 1307.31 227.15 373.06 1300.16 2146.83	Temp (deg F) 108.21 108.13 125.38 121.31 121.00 127.00 123.75 123.90	Annotation Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2) Shut-In(2) End Shut-In(2) Final Hydro-static	
	Recovery		_			Ga	s Rates	
Length (ft)	Description	Volume (bbl)	4			Choke (i	nches) Pressure (psig) Ga	as Rate (Mcf/d)
496.00	70%Water/12.5%Gas/12		+					
248.00 33.00	40%Water/40%Mud/10% 50%Mud/20%Water/15%		+					
00.00	90%Oil/10%Gas	0.03	†					
2.00								
2.00]					

NG , INC P.O. B Hays,F	ox 372 <s 67601<br="">Marc Dow ning</s>	REPORT	IFS Unit 1	I-19 W-Pawnee	LUID SUMMARY
Hays,F	ox 372 Ks 67601		19/20S/20	W-Pawnee	
Hays,F	Ks 67601				
Hays,F	Ks 67601				
	Marc Dow ning				DST#:2
	Wate Dow hing		Test Start: 2	011.02.25 @ 02:	-
rmation				011.02.20 @ 02.	54.10
	Cushion Type:			Oil A PI:	deg API
/gal	Cushion Length:			Water Salinity:	42000 ppm
ec/qt	Cushion Volume:		bbl		
3	Gas Cushion Type:				
hm.m	Gas Cushion Pressur	e:	psig		
	Decover, Table				
	-			т	
Length ft	Description				
	70%Water/12.5%Gas/12.5%	oil/5%Mud		+	
248.00				7	
33.00	50%Mud/20%Water/15%Oil/	15%Gas	0.463		
2.00	90%Oil/10%Gas		0.028	8	
al Length: 779	0.00 ft Total Volume:	10.645 bbl			
n Fluid Samples: 0 ioratory Name: covery Comments:			Serial #:		
	Length ft 496.00 248.00 33.00 2.00 al Length: 779 n Fluid Samples: 0 oratory Name:	Chess Recovery Table Length ft Description 496.00 70%Water/12.5%Gas/12.5% 248.00 40%Water/40%Mud/10%Oil/ 248.00 40%Water/40%Mud/10%Oil/ 33.00 50%Mud/20%Water/15%Oil/ 2.00 90%Oil/10%Gas al Length: 779.00 ft Total Volume: n Fluid Samples: 0 Num Gas Bombs: oratory Name: Laboratory Location	Endities Recovery Table Length ft Description 496.00 70%Water/12.5%Gas/12.5%Oil/5%Mud 248.00 40%Water/40%Mud/10%Oil/10%Gas 33.00 50%Mud/20%Water/15%Oil/15%Gas 2.00 90%Oil/10%Gas al Length: 779.00 ft Total Volume: 10.645 bbl n Fluid Samples: 0 Num Gas Bombs: 0 oratory Name: Laboratory Location:	Length ft Description Volume bbl 496.00 70%Water/12.5%Gas/12.5%Oil/5%Mud 6.675 248.00 40%Water/40%Mud/10%Oil/10%Gas 3.479 33.00 50%Mud/20%Water/15%Oil/15%Gas 0.463 2.00 90%Oil/10%Gas 0.028 al Length: 779.00 ft Total Volume: 10.645 bbl n Fluid Samples: 0 Num Gas Bombs: 0 Serial #: oratory Name: Laboratory Location: Serial #:	Length ft Description Volume bbl 496.00 70%Water/12.5%Gas/12.5%Oil/5%Mud 6.675 248.00 40%Water/40%Mud/10%Oil/10%Gas 3.479 33.00 50%Mud/20%Water/15%Oil/15%Gas 0.463 2.00 90%Oil/10%Gas 0.028 al Length: 779.00 ft Total Volume: 10.645 bbl n Fluid Samples: 0 Num Gas Bombs: 0 Serial #: oratory Name: Laboratory Location: Serial #:



DNOC

19/20S/20W-Paw nee



Printed: 2011.02.25 @ 12:00:22 Page 3

Ref. No: 41844

Trilobite Testing, Inc

ALLIED CEMENTING CO., LLC. 038701

Federal Tax I.D.# 20-5975804

SERVICE POINT:

REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665

-

Great Bend

							- UE-M
DATE 2-26-11	SEC.	TWP.	RANGE 20	CALLED OUT	ON LOCATION	JOB START 430 AM	
LEASEIFS	WELL#	1-19	LOCATION	Alx Zande- KS	115044	COUNTY Pausee	STATE S
OLD OR NEW (Ci	rcle one)	<u> </u>		N Quest 1/2			······································
CONTRACTOR TYPE OF JOB 5			-		low mi-s +	····· .	· ·
HOLE SIZE 12		24# <u>T.D</u>	523	CEMENT			
CASING SIZE 8		24# DE	PTH 323		RDERED _2.50	SX Class F	12866
TUBING SIZE			PTH	2%60			
DRILL PIPE			PTH			· · · ·	
TOOL		DE	РТН				· ·
PRES. MAX		ML	NIMUM	COMMON_	250	@13.50	<u>3. 375. ≏</u>
MEAS. LINE			<u>OE JOINT</u>	POZMIX		æ	
CEMENT LEFT IN	ICSG.	15		GEL	5	_@ <u>_</u> 20·25_	101.25
PERFS.		A A B		CHLORIDE	9	@ 51-50	463.50
DISPLACEMENT				ASC	-	@	
	EQ	UIPMENT				_@	······································
						_@	
PUMP TRUCK	CEMEN	TER UN	wy we			_@	
		G Y	-			@	
BULK TRUCK				······································		@	
	DRIVER	wood	. <u>ү</u>	·····			
BULK TRUCK						@ @	4
#	DRIVER		1	HANDLING	250x 31 ×.10	@ 2-2.5	562.50
0		MARKS:	·			TOTAL	5.277.25
Ram 8 58				d			· .
Shut Do					SERV	ICE .	
3% - + 2%	5 Gel			DEPTH OF J	OB 523	· · · ·	
Displaces		Bhst-e	:sh wate		CK CHARGE		59.00
ShutI			امدهم	EXTRA FOO		@	
Cement	- •		late.	MILEAGE	· · · · · · · · · · · · · · · · · · ·	 @ 7. 0ථ	217.00
			· · · ·	MANIFOLD		@	
					· · · · · · · · · · · · · · · · · · ·		
	•						
CHARGE TO:	مسما	inst	NELSad				<u>ķ</u>
				· · ·		TOTAL	13765
				·			85
CITY	S'.		ZIP	/	PLUG & FLOA	T EQUIPMEN	
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To Allied Comon	ting Co	UС				@	-211
To Allied Cement			nanting a	· · · · · · · · · · · · · · · · · · ·	······	@	· <u>· · · · · · · · · · · · · · · · · · </u>
You are hereby re	quested	to rent cer	nenting equir	ment	· · · · · · · · · · · · · · · · · · ·	_ ~	

<u>.</u>	nt t pair	Voleza	WELL NO.	10		SWIFT	·	108 TYPE
ART 	TIME	RATE	VOLUME	PUI	JMPS	ZFS PRESSUR	LASI	it Concert Longstring 19562
<u>NU.</u>	<u> </u>	(BPM)	(BBL) (GAL)		C	TUBING	CASING	3 TD-4368' DESCRIPTION OF OPERATION AND MATERIALS
	0245		<u> </u>		<u> </u>			On location w/ Pleat Equip Right
	0.516	┥────	_ <u>_</u>	<u> </u>				Start 5 1/2" casing to 4366 14 #14.
								Pre Sha 10 0 cht 5 0 17 14.
	Ļ						—	PKR Shoe - LD Battle - 5 5 20.78'
				[[<u> </u>	Cent 1-3-5-7-9-12-71
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	0710	1	<u>°</u>		+-+		t	D.V. coller # 72 @ 1.384
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	0 850	<u> </u>	<u></u>	L]	\vdash			Pump to Set PER Shoe - W/ Tok
		ļ	<u> </u>		\square		1	Not sets Wait 5 min - Still N
		ll					300	Sof St. & EDALI VALA VOTILI N
		01			,		200	Jos gre much tuch
		i						Therrous Dewn To Dresing - Not S
					-+			Fin Much Plesk - Start 20 BBI KC
	2920		<u> </u>	+	-+	+		PKR Shae Stall NOT DIROS UP 40.
	21	3 3 V2	r		-+	155 87	100	Fin Kel Phish- Call Ted - Said to
		3/2				-1		Start 150 sts Standard EH-2 went
			36	-+			k	Fin cent - wash puns & ling
		- 8					300	Drop Skeltz - LD Plug - Start Displ
-+-		6	72				2/AZ	Start Mend Dies / / Cont
	+	_5	90					Fin 18 BBI Mend -Start 2 Stage KCL A
//	000		106			2	8/10	Flug Down Held-Release & Held on
	1005					~1	16-	
	OBS		2		_			Drop D. U. Spencie Device - Plus RH / mette
								Open D. U w/ Tot- Kel fluch
			70	-+-	+-			start \$ 125 3ks Smil @ 112/sel
		5			+			Fin cut. Drop D. U. Closing Plug.
		<u> </u>						Stort Drent
-+-			34				120	Plug Down - 50 5KS SHEDCIALLASE
-+-							<u> </u>	D. U. Clese - Hold & Relege & Held
					4_			Job Complete
<u> </u>							4	Wash of Arackup
					T			Mar Non, Nous & Dave E.
		_			\top			All non source.
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