

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1067188

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 Feast / West Line of Section
Contact Person:	
Phone: ()	
CONTRACTOR: License #	
Name:	Lease Name: Well #:
Wellsite Geologist:	
Ũ	
Purchaser:	
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: Fee
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.):	w/sx cmt
If Workover/Re-entry: Old Well Info as follows:	
Operator:	_
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 SW	Chioride content:ppm Fluid volume: bbis
	Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	
Dual Completion Permit #:	Operator Name:
☐ SWD Permit #:	Lease Name: License #:
ENHR Permit #:	Quarter Sec TwpS. R East Wes
GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date 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 Approved by: Date:

	Side Two	1067188
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	Nar	-	on (Top), Depth and	d Datum Top	Sample Datum
Samples Sent to Geolog	gical Survey	Yes	No	INdi	lie		юр	Datum
Cores Taken Electric Log Run Electric Log Submitted B (If no, Submit Copy)	Electronically	Yes	No No No					
List All E. Logs Run:								
			CASING R		lew Used			
		Report all st	rings set-co	nductor, surface, in	termediate, produc	tion, etc.		
Purpose of String	Size Hole Drilled	Size Casir Set (In O.I		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 For	RECOF	RD - Bridge P Each Interval F	lugs Set/Typ Perforated	e			ement Squeeze Record of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packe	r At:	Liner R	un:	No	
Date of First, Resumed	Product	ion, SWD or ENHF	ł.	Producing M	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	s.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITIO	ON OF (BAS:			METHOD	OF COMPLE	TION:		PRODUCTION INT	ERVAL:
Vented Sold		Jsed on Lease		Open Hole	Perf.	Uually (Submit /	Comp. ACO-5)	Commingled (Submit ACO-4)		
(If vented, Sul	bmit ACC)-18.)		Other (Specify)						<u></u>

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Tombaugh-Vand 1-6
Doc ID	1067188

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density / Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Tombaugh-Vand 1-6
Doc ID	1067188

Tops

Name	Тор	Datum
Top Anhydrite	1383	+837
Base Anhydrite	1405	+815
Heebner	3735	-1515
LKC	3784	-1564
ВКС	4103	-1883
Fort Scott	4287	-2067
Cherokee Shale	4308	-2088
Mississippi	4353	-2133

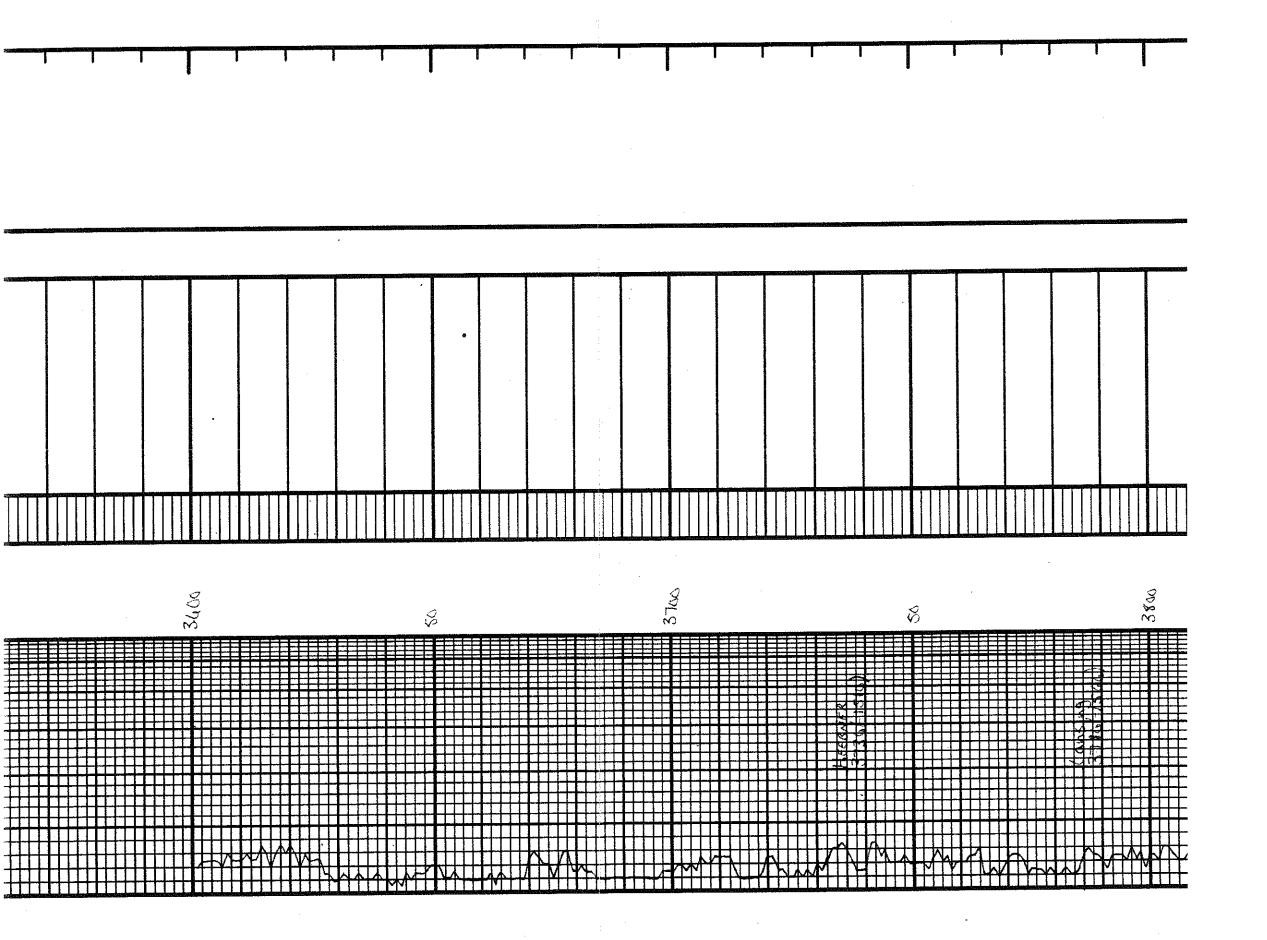
	Fnelse		WELL NO.	1.6	LEASE TOMBQUGI		D Comment long steine	DAT NOV 11 1 TICKET NO. 22438
CHART		RATE (BPM)	VOLUME	PUMPS	PRESSUR	E (PSI)	DESCRIPTION OF OPERATION	
NO.		(BPM)	(BBL) (GAL)	T C	TUBING	CASING		
							150 3/5 5A-2 - 175345 5MD	4/7/ Dakos
		<u></u>	1			4	TD= 4379 52" 13.5# CHAN	y 105 joints - 4470
					<u> </u>		Controlizers 1, 3, 5, 7,9, 11, 13,	
· · · · ·		·····			 		DY toul #73 1348' Sha	+ 47.13
					 			
	1230	e e e e e e e e e e e e e e e e e e e					on loc TEK 114	
	1410						start St cusiq in 1	vell
	1615				· · · ·		<u>Cleculate</u> Drop ball - set pA	ale alea
	1640				-	13:20		erec shoe
		1.3/				0.5	<u>creccente</u>	1
	1642	43/4 w3	12			200	Purp 500gol midtle	sh
·····	14	434	20			200	Punp RC 661 KCL	flush
	1655	424	47			200	M. & 150545 EA-2	
			<u> </u>	<u> </u>				dum plug
	(3.)	: 2.					wash out pump # And	2.4
	1710	631				200	Displace plug	
<u></u>		634	88			89		
	17725	64	103			1500	LANd plug	
							Release pressure to	kutk-dried u
							Drop bomb	ants a melic
	1735	<u> </u>	7		·		Plug RH-MH 3	
	1740	_2	4		 	900	Open DV tool	
		/13.				2.0	1 .2555	<u> </u>
	1745	43	90			210	Mix 12536 SMD	e II. C ppg
	Mad						N 200 1 1	,
	1808	-					Drop Zno stage plug	
	1010	1%						· · · · · · · · · · · · · · · · · · ·
	1810	64				200	Displace plug	
	10.	12				, daa		mili A
····	1815	63	32			1800	Land plug - close	. DV tool
			1				O.A.	
<u></u>							Relaque pressue to t	eich - aried w
	1810						wash tent	
			1				Rack up	4 [°]
	1900						NOB COMPLETE.	
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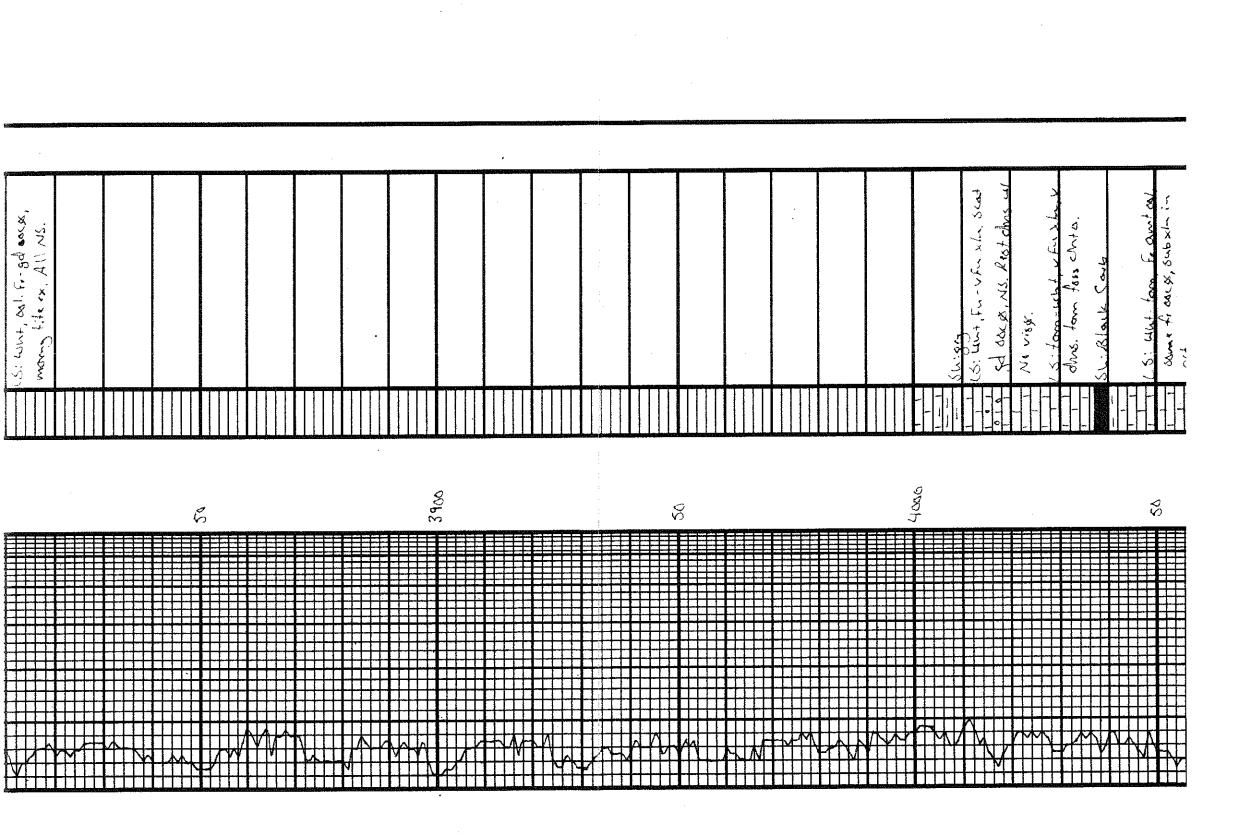
ALLIED CEMENTING CO., LLC. 042284 Federal Tax I.D.# 20-5975804 SERVICE POINT:

K000	SELL, KA	INSAS 070	65			VICE POINT: Great Be	weldes
	SEC.	TWP.	RANGE	CALLED OUT	0	11-02-	11
<u>date 11-01-11</u>	- 4	705	TOW	CALLEDOUT	ON LOCATION	JOB START	JOB FINISH
Tom bangh						COUNTY	STATE
LEASE Vand		1-6		edander 25 1	1 south.	Bunee	245
OLD OR NEW (Ci	rcle one)		1/2 West	Southento			
CONTRACTOR (<u>.</u>	د مساد			<u> </u>		
CONTRACTOR	<u>Inscau</u>	erc #4		OWNER	Cowning - No	loon Oil	
TYPE OF JOB 5 HOLE SIZE 12	whee				U		
CASING SIZE 8			. 570	CEMENT		χ.	
	<u></u>		TH SZO	AMOUNT C	RDERED ZC5.	50- Com 3'	Ho ce Clore
TUBING SIZE DRILL PIPE イレ			HTY III	·	······		
TOOL	2		<u>PTH 520</u>		······		
PRES. MAX	<u> </u>		PTH				
MEAS. LINE			<u>NIMUM</u>	COMMON_	265	_@ <u>!6:25</u>	4306.
CEMENT LEFT IN		SHO	DE JOINT	POZMIX _		@	
	1030. /	5		GEL _		<u>@ 21.25</u>	106.23
PERFS.	<u>or</u> 1			CHLORIDE		@ <u>58.20</u>	523.3
DISPLACEMENT	Wesh	wash		ASC		@	
	EQI	UIPMENT		······		@	
				·		_@	
PUMP TRUCK	CEMENT	ER RL	Poller				
		Quetin				@	
BULK TRUCK	1221 21	who the				@	
	DRIVER	Here's	W. Jon G	o		@	
BULK TRUCK		neuni	U. Z Van U	<u> </u>		@	
	DRIVER					@	
	DIVITE			HANDLING	279	@ 2-25	627.5
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nud Mit 7	<u>265 3N</u>	Common	3% cc. 2%	Rat	SERVI	CE	
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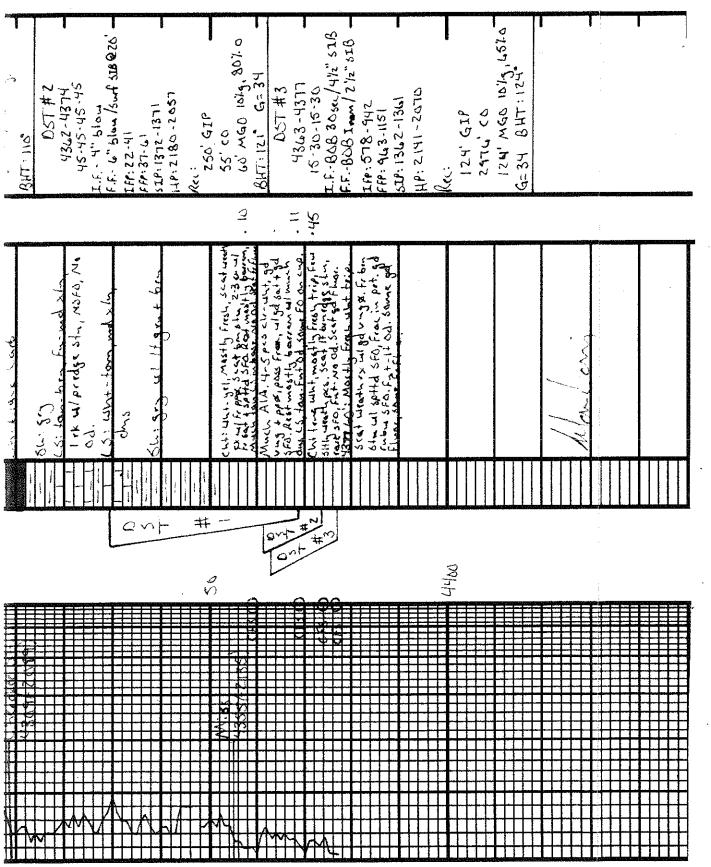
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RILOBITE	DRILL STEM TES	ST REP	ORT			
	Dow ning-Nelson Oil Co Inc		6-21s-	20w Pav	vnee	
ESTING , INC	P O Box 372 Hays Ks 67601-0372		Tomb	augh-Va	und #1-6	
				ket: 44769		
	ATTN: Ron Nelson		Test Sta	art: 2011.1	11.07 @ 05:11:0	4
GENERAL INFORMATION:						
Formation:MissDeviated:NoWhipstock:Time Tool Opened:07:30:29Time Test Ended:12:36:58	ft (KB)		Test Ty Tester: Unit No:	Ray	ventional Bottom Schw ager	Hole (Initial)
Interval:4330.00 ft (KB) To4Total Depth:4369.00 ft (KB) (1Hole Diameter:7.85 inches Hole			Referer	nce Elevati KB to GF	2212.	.00 ft (KB) .00 ft (CF) .00 ft
Serial #: 6625 Inside Press@RunDepth: 49.85 psig Start Date: 2011.11.07 Start Time: 05:11:04 TEST COMMENT: 45-IFP-w k bl 1/ 45-ISIP-no bl	End Date: End Time:	2011.11.07 12:36:58	Capacity: Last Calib.: Time On Btm Time Off Btm		8000. 2011.11. 1.11.07 @ 07:27: 1.11.07 @ 10:35:	:59
45-FFP-w k bl 1 45-FSIP-no bl Pressure vs.	Time		PRES	SSURE S	SUMMARY	
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		49 94	1241.91 1	06.21 End	ut-ln(1) d Shut-ln(1)	
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		183 188			d Shut-In(2) al Hydro-static	
64M 94M 7 Mon Nov 2011 Time (Hous) 12FM					
Recovery				Gas R		·
Length (ft) Description 0.00 30'GIP	Volume (bbl)			Choke (inches) Pressure (psig)	Gas Rate (Mcf/d)
60.00 HO&GCM 10%G40%OS						

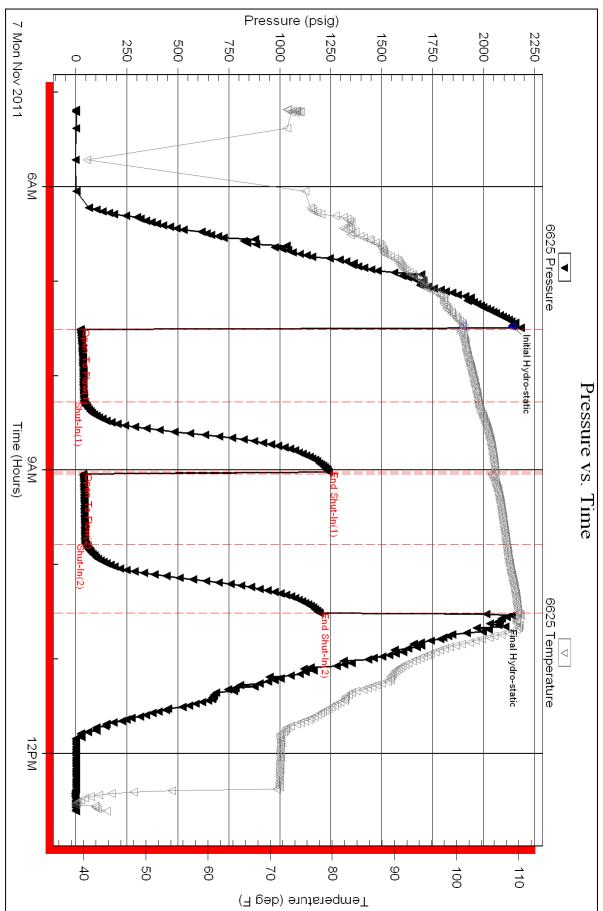
	(Or)-		DRI	LL ST	EM TEST R	EPORT			FLUID S	UMMARY	
Hays Ks 67601-0372 Job Ticket: 44769 DST#:1 ATTN: Ron Nelson Test Start: 2011.11.07 @ 05:11:04 Mud and Cushion Information Use Start: 2011.11.07 @ 05:11:04 OII API: deg API Mud Yppe: Gel Chem Cushion Type: OII API: deg API Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: ppm Viscosity: 63.00 sec/qt Cushion Volume: bbl bd water Salinity: ppm Viscosity: 63.00 sec/qt Cushion Pressure: psig salinity: ppm Salinity: ohm.m Gas Cushion Pressure: psig salinity: psig Salinity: 680.00 ppm E E E E Recovery Table Total Length: ft Description Volume 0.00 30'GIP 0.000 0.568 E Total Length: 60.00 ft Total Volume: 0.568 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial			Dow nir	ng-Nelson	Oil Co Inc		6-21s-20w	Pawnee			
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		Laboratory Nan	ne:				Serial #	:			

Printed: 2011.11.07 @ 13:41:10

Ref. No: 44769

Trilobite Testing, Inc





Serial #: 6625

Inside Dow ning-Nelson Oil Co Inc

Tombaugh-Vand #1-6

DST Test Number: 1

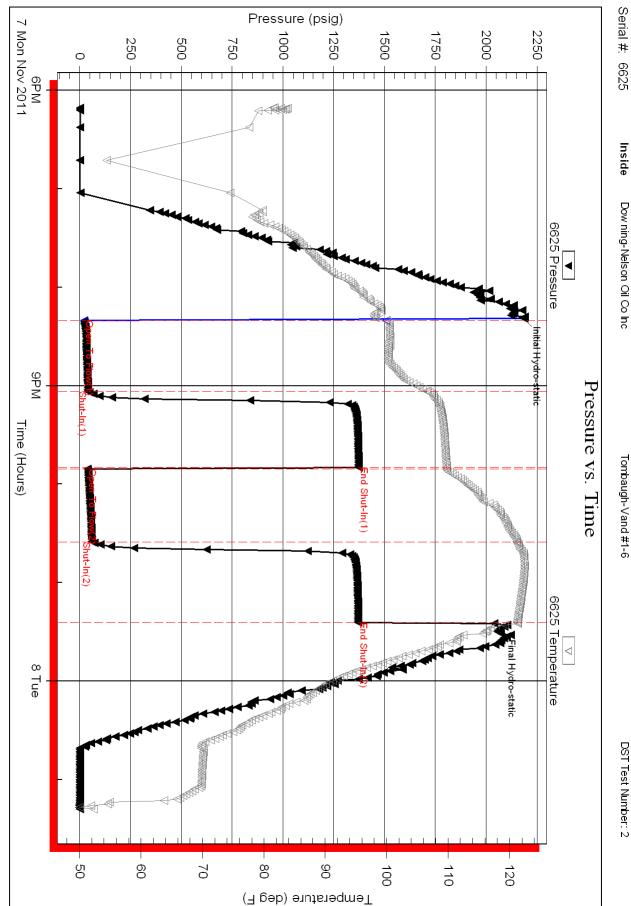
10h	RILOBITE	DRILL STEM T	ΞS	T REP	ORT				
		Dow ning-Nelson Oil Co Inc			6-2	1s-20w I	Pawr	iee	
	ESTING , INC.	P O Box 372 Hays Ks 67601-0372				mbaugh			
		ATTN: Ron Nelson				Ticket: 44		DST 07 @ 18:10:3 [,]	
	NFORMATION:								-
Formation:	Miss								
Deviated: Time Tool Oper Time Test Ende	No Whipstock: ned: 20:19:56	ft (KB)			Tes	ter: F		ntional Bottom hw ager	Hole (Reset)
Interval: Total Depth: Hole Diameter:	4362.00 ft (KB) To 43 4374.00 ft (KB) (T\ 7.85 inchesHole	/D)			Ref	erence Ele KB t	evation o GR/0	2212.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 66 Press@RunDe Start Date: Start Time:		@ 4366.00 ft (KB) End Date: End Time:		2011.11.08 01:17:55	Capacity Last Cali Time On Time Off	b.: Btm: 2	-	8000. 2011.11. 1.07 @ 20:18: 1.07 @ 23:29:	26
TEST COMN		r bl 1"to 6"bl t 20min,then surface bl bk							
	Pressure vs. T 0825 Pressure	tme 	-	Time				JMMARY notation	
2250		K Int Hard Parkets	120	(Min.)	Pressure (psig)	Temp (deg F)	AIII		
2000			110	0 2	2180.39 22.21	98.22 99.95		Hydro-static To Flow (1)	
1750				2 45	41.38	99.95 106.69	Shut-		
1500			100 Ter	92	1372.89	109.75	End S	Shut-In(1)	
1250 -				93	37.86			To Flow (2)	
			nperature (deg F) 8 8	137 186	61.36 1371.30	121.17 121.22		in(2) Shut-In(2)	
			3 70 60 50	191	2057.25	116.17		Hydro-static	
7 Mon Nov 2011	Time (Hours)								
.	Recovery					_	s Rat		
Length (ft)		Volume (bbl)				Choke (i	nches)	Pressure (psig)	Gas Rate (Mcf/d)
60.00 55.00	MGO 10%G10%M80%O	0.57							
0.00	250'GIP	0.00							
* Recovery from mult	tiple tests								
Trilobite Tes	sting Inc	Ref. No: 44770				Printed [.]	2011	11.08 @ 08:13	.07

	RILOBITE	DR	LL STEM TEST REPO	KI	FLI	JID SUMMAR			
·第二		Dow n	ng-Nelson Oil Co Inc	6-21s-20v	v Pawnee				
	ESTING , INC		x 372 Ks 67601-0372		Tombaugh-Vand #1-6 Job Ticket: 44770 DST#: 2				
		ATTN:	Ron Nelson		Test Start: 2011.11.07 @ 18:10:31				
Mud and Cus	hion Information								
/ud Type: Gel (Cushion Type:		Oil A PI:	34 deg API			
/lud Weight:	9.00 lb/gal		Cushion Length:	ft	Water Salinity:	ppm			
iscosity:	63.00 sec/qt		Cushion Volume:	bbl					
Vater Loss:	7.93 in ³		Gas Cushion Type:						
esistivity:	ohm.m		Gas Cushion Pressure:	psig					
alinity: ilter Cake:	6800.00 ppm 1.00 inches								
ecovery Info									
-			Recovery Table						
	Leng ft	th	Description	Volume bbl					
		60.00	MGO 10%G10%M80%O	0.56					
		55.00	00	0.77					
		0.00	250'GIP	0.00	00				
	Total Length:	115	5.00 ft Total Volume: 1.340	bbl					
	Num Fluid Sam	oles: 0	Num Gas Bombs: 0	Serial	#:				
	Laboratory Nar	ne:	Laboratory Location:						
	Recovery Com	ments:							

Printed: 2011.11.08 @ 08:13:28

Ref. No: 44770





Inside

Dow ning-Nelson Oil Co Inc

Tombaugh-Vand #1-6

DST Test Number: 2

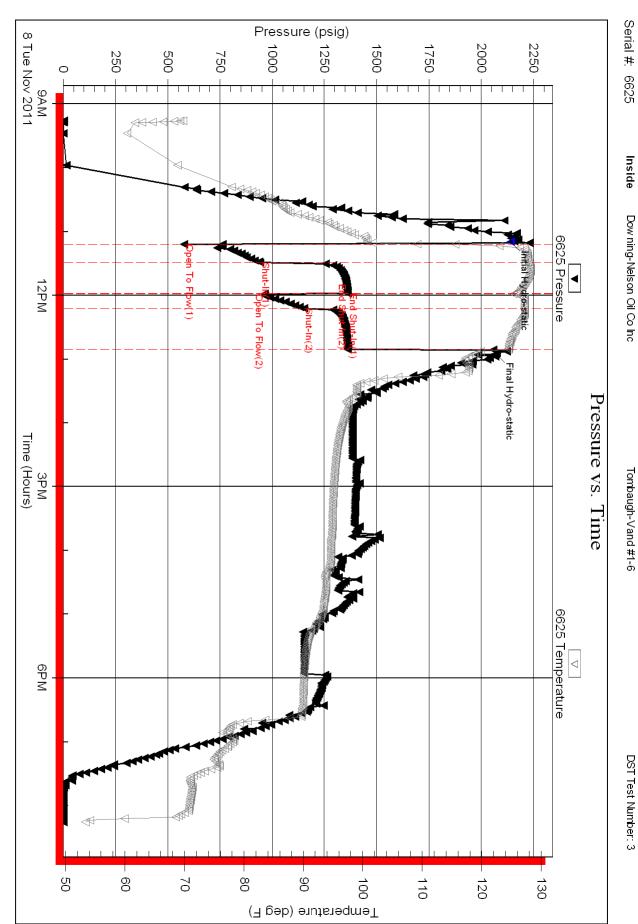
RILOBITE	DRILL STEM TES	ST REP	ORT				
	Dow ning-Nelson Oil Co Inc		6-21	1s-20w	Pawnee		
ESTING , INC	POBox 372		Ton	nbaugh	n-Vand #	1-6	
	Hays Ks 67601-0372		Job -	Ticket: 44	4771	DST#:	3
	ATTN: Ron Nelson		Test	Start: 20	011.11.08 @	09:15:49	
GENERAL INFORMATION:							
Formation:MISS-OsageDeviated:NoWhipstock:Time Tool Opened:11:11:44Time Test Ended:20:15:14	ft (KB)		Test Test Unit	er:	Convention Ray Schwa 42	al Bottom H ager	ole (Reset)
Interval:4363.00 ft (KB) To43Total Depth:4377.00 ft (KB) (TwHole Diameter:7.85 inches Hole	(D)		Refe	erence Ele KB t	evations: to GR/CF:		D ft (KB) D ft (CF) D ft
Serial #: 6625 Inside Press@RunDepth: 1150.69 psig 1150.69 psig Start Date: 2011.11.08 2011.11.08 Start Time: 09:15:49 09:15:49 TEST COMMENT: 15-IFP-strg bl in 30-ISIP-4 1/2"bl b 15-FFP-strg bl th 30-ISIP-4 1/2"bl b 15-FFP-strg bl th	End Date: End Time: 30sec k	2011.11.08 20:15:14	Capacity: Last Calib Time On E Time Off I	o.: Btm: :		8000.00 2011.11.08 @ 11:09:44 @ 12:54:44	8
Pressure vs. T		1					
Tressure vo. r	ECO Temperature 000 Te	Time (Min.) 0 2 20 49 49 63 101 105	Pressure (psig) 2141.02 577.80 941.54 1362.09 962.56 1150.69 1360.97 2069.92	Temp (deg F) 100.74 109.12 127.81 125.83	Open To I Shut-In(1) End Shut- Open To I Shut-In(2)	ro-static Flow (1) In(1) Flow (2) In(2)	
Recovery	<u>_</u>			Ga	s Rates		
Length (ft) Description 0.00 124'GIP	Volume (bbl) 0.00			Choke (i	inches) Press	ure (psig)	Gas Rate (Mcf/d)
2976.00 CO	41.47						
124.00 MGO 25%G10%M65%O	1.74						
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 44771					9 @ 08:17:1	

	RILOB	ITE	DRI	LL S	TEMTEST	REPORT	-	F	FLUID SUMMARY		
美			Dow ni	ng-Nelso	n Oil Co Inc		6-21s-20w	Pawnee			
	 ESTI	ESTING , INC.		x 372 (s 67601-	-0372		Tombaug Job Ticket: 4	h-Vand #1-6	DST#:3		
			ATTN:	Ron Ne	lson			2011.11.08 @ 09			
Mud and Cเ	ushion Info	ormation									
/lud Type: G /lud Weight:	el Chem 9.00 ll	o/gal			Cushion Type: Cushion Length:		ft	Oil API: Water Salinity:	34 deg A PI ppm		
/iscosity: Vater Loss:	58.00 s 8.76 ir	sec/qt			Cushion Volume: Gas Cushion Type:		bbl		P		
Resistivity: Salinity: Filter Cake:		ohm.m opm			Gas Cushion Pressur	e:	psig				
Recovery In	formation]									
					Recovery Table			٦			
		Leng ft	th		Description		Volume bbl				
			0.00	124'GIF	>		0.000	-			
			976.00 124.00	CO MGO 2	5%G10%M65%O		41.472				
	Tot	al Length:		.00 ft	Total Volume:	43.211 bbl		4			
	Lat	m Fluid Samp boratory Nan covery Comr	ne:		Num Gas Bombs: Laboratory Locati	0 on:	Serial #	:			

Printed: 2011.11.09 @ 08:17:20

Ref. No: 44771

Trilobite Testing, Inc



DST Test Number: 3