

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1146196

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:					
		Feet from North / South Line of Section			
City: Sta	ate: Zip:+	Feet from Cast / West Line of Section			
-		Footages Calculated from Nearest Outside Section Corner:			
Phone: ()					
		County:			
		Lease Name: Well #:			
		Field Name:			
-					
		Producing Formation:			
Designate Type of Completion:		Elevation: Ground: Kelly Bushing:			
New Well	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	e, Expl., etc.):	feet depth to:w/sx cmt.			
If Workover/Re-entry: Old Well Infe	o as follows:				
Operator:		Drilling Fluid Menonement Dien			
Well Name:		Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)			
Original Comp. Date:	Original Total Depth:				
Deepening Re-perf.		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 Rea Recompletion Date	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	1146196
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 Sheets)		Yes No		-	n (Top), Depth an		Sample	
Samples Sent to Geolog	ical Survey	Yes No	Nan	ie		Тор	Datum	
Cores Taken Electric Log Run Electric Log Submitted Electronically (If no, Submit Copy)		<pre>Yes □ No Yes □ No Yes □ No</pre>						
List All E. Logs Run:								
		CASIN	G RECORD	ew Used				
		Report all strings se	et-conductor, surface, int	ermediate, product	ion, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	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 RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Size: Set At: Packer At:			At:	Liner R	un:	No			
Date of First, Resumed F	Resumed Production, SWD or ENHR. Producing Method:			ping	Gas Lift	Other (Explain)				
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
									Ι	
DISPOSITIO	ITION OF GAS: METHOD OF COMPLE		TION:		PRODUCTION INTE	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	Palomino Petroleum, Inc.
Well Name	Frank Ummel 1
Doc ID	1146196

Tops

Name	Тор	Datum		
Anhy.	1750	(+ 702)		
Base Anhy.	1792	(+ 660)		
Heebner	3839	(-1387)		
Lansing	3876	(-1424)		
ВКС	4211	(-1759)		
Marmaton	4251	(-1799)		
Pawnee	4295	(-1843)		
Ft. Scott	4385	(-1933)		
Cherokee Sh.	4409	(-1957)		
Cherokee Sd.	4490	(-2038)		
LTD	4561	(-2109)		



PO Box 93999 Southlake, TX 76092

Voice: (817) 546-7282 Fax: (817) 246-3361

Bill To:

Palomino Petroleum, Inc. 4924 SE 84th St. Newton, KS 67114-8827 APR 0 1 2013



Invoice Number: 135374 Invoice Date: Mar 18, 2013 Page: 1

Now Includes:



Custom	ner ID	Field Ticket #	Ficket # Payment Ten			
Pal	0	60359		Net 30 Day	ys	
Job Loo	cation	Camp Location	S	ervice Date	Due Date	
KS1-	-03	Great Bend	M	ar 18, 2013	4/17/13	
Quantity	Item	Description	Description Unit Price			
		Frank Ummel #1				
150.00		Class A Common		17.90	2,685.00	
100.00	MAT	Pozmix		9.35	935.00	
	MAT	Gel		23.40	210.60	
63.00	MAT	Flo Seal		2.97	187.11	
269.20	SER	Cubic Feet		2.48	667.61	
89.85	SER	Ton Mileage		2.60	233.61	
1.00	SER	Plug to Abandon		2,249.84	2,249.84	
8.00	SER	Pump Truck Mileage	61.60			
8.00	SER	Light Vehicle Mileage	Light Vehicle Mileage 4.40			
1.00	CEMENTER	Charles Elkins				
1.00	EQUIP OPER	Joshua Isaac				
1.00	EQUIP OPER	Joel Monahan				
	E NET, PAYABLI	Subtotal			7,265.57	
	E NET, PATABLI OWING DATE OF		an 'n teatro ar anna a' 7400.		457.73	
INVOICE. 11/	2% CHARGED	Total Invoice Amount			7,723.30	
	IF ACCOUNT IS	Den 1/0 Production			.,. 20.00	
CURRENT, TAK	E DISCOUNT OF	TOTAL			7 722 20	
\$	1,816.39	TOTAL			7,723.30	

ONLY IF PAID ON OR BEFORE Apr 12, 2013

ALLIED OIL & GAS SERVICES, LLC 060359

Federal Tax I.D. # 20-8651475

REMIT TO P.O. SOUT	BOX 93999 THLAKE, T		092		SE	RVICE POINT:	nd, ks
DATE 3-18-13	SEC.	TWP.	RANGE 24,12	CALLED OUT	ON LOCATION	I LIOD STADT	JOB FINISH
Fran K LEASE UMADe	WELL #	ŀ	Ness City North LOCATION Soleth	LGM to 20000	1. West 154	MESS	STATE
OLD OR NEW (C	Circle one)						
CONTRACTOR	Mallar	d		OWNER Par	Iomino Petr	oleum, Inc.	
TYPE OF JOB				-		<i>j</i>	
HOLE SIZE 77	8	<u>3</u> ≢ DE). 4560¢+	_ CEMENT	2 00	1 1 0/10 1	uRe a s
CASING SIZE 8	J/c. L		PTH 21754	_ AMOUNT OR	DERED 250	51 60140+	4% Gel
TUBING SIZE	2 16,60	DE	PTH	+ ,25 1sk	Mo-Scal		
DRILL PIPE 47	2 16160		PTH 1820 44				
PRES. MAX			<u>PTH</u> NIMUM	-	150	0.7.90	2.685.00
MEAS. LINE			OE JOINT	_ COMMON POZMIX	100	@ <u>17.90</u> @_9.35	935.00
CEMENT LEFT I	IN CSG.		0030111	GEL	Q	@ <u>7:55</u> @ 23.40	210.00
PERFS.			······································	CHLORIDE		@ <u>&3:70</u>	_ <u></u>
DISPLACEMEN	TWBMY	FW		ASC		@	
	EOU	JIPMENT	٦	ASC	ol 63		187.11
						@	
PUMP TRUCK	CEMENT	FR Char	les Elkins			@	
# 398	HELPER					@	-
BULK TRUCK		<u>v //v</u>	5722				
#609/112	DRIVER	Joel Mo	nahan			@	
BULK TRUCK						@	
#	DRIVER			- HANDLING_	7/92	@ @ Z.Y8	667.61
				MILEAGE //		2.60	233.41
	RE	MARKS:		MILLAGE A			4.918,93
Plus 1 @ 1820ff			W, 18 WBM (505	λ		IUIAL	4. 116, -
Plug 7 @ 99054	6FW 15	int 81	in (Losy	Ţ	SER	VICE	
Plug 3@ 570f+ Plug 4@ 240ff	6FW, 10	cm 7, 3.5	FW (4051	~1			
Pup 4@ 24074	Grw 12.5	cray as	FW (505))B_1820		
Flay 5@ 60 ft:	D CMT	· 1.1	(20sx)			2249.89	
Plus Rat Hole 1	with r.s	20 Cmt	(3952)	_ EXTRA FOOT	*****	@	
				MILEAGE		@ 7.78	61.60
				- MANIFOLD		@ @40	35.20
				<u> </u>	un 8	@ 7.70	

CHARGE TO: Pelomino Petroleum, Inc. STREET _____ CITY_____STATE ____ _____ZIP___

TOTAL 2.346. 64

PLUG & FLOAT EQUIPMENT

@

 @	
 0	
@	
@	
 @	

TOTAL _____

SALES TAX (If Any)
TOTAL CHARGES 7. 265. 57
DISCOUNT IF PAID IN 30 DAYS
5 449.18

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NA	ME KYle Stort	
SIGNATURE	Kyl-Stor	

Plup 1@ 1820 4: 6FW, 125 cm 1, 2KH, 18 WBM	(50 ₅₆)
Plug 20 99054.6FW, 15 cnit, 8FW	(605x)
Plus 30, 570ft: 6 FW. 10 cm +, 3,5 FW	(4,05x)
Plug 4 @ 240 H. GFW, 12.5 cm. 7, 05 FW	(50sf)
Play 5@ 60 ft: 5 cmt	(20sx)
Plus Rat Hole with 7.564 cast	(3951)



PO Box 93999 Southlake, TX 76092

Voice: (817) 546-7282 Fax: (817) 246-3361

Bill To: Palomino Petroleum, Inc. 4924 SE 84th St. Newton, KS 67114-8827 RECEIVED MAR 2 3 2013

INVOICE

Invoice Number: 135276 Invoice Date: Mar 11, 2013 Page: 1

Now Includes:



Custom	ner ID		Field Ticket #	Payment 7	lerms
Pal	0		60354	Net 30 E	Jays
Job Loc	ation		Camp Location	Service Date	Due Date
KS1-	01		Great Bend	Mar 11, 2013	4/10/13
Quantity	Item		Description	Unit Price	Amount
		Franl	(Ummel #1		
150.00	MAT	Class	A Common	17.90	2,685.00
3.00	MAT	Gel		23.40	70.20
5.00	MAT	Chlor	ide	64.00	320.00
162.09	SER	Cubio	c Feet	2.48	401.98
59.20	SER	Ton N	/lileage	2.60	153.92
1.00	SER	Surfa	ce	1,512.25	1,512.25
8.00	SER	Pump	o Truck Mileage	7.70	61.60
8.00	SER	Light	Vehicle Mileage	4.40	35.20
1.00	CEMENTER	Charl	es Elkins		
1.00	EQUIP OPER	Joshu	Ja Isaac		
1.00	EQUIP OPER	Mike	Scothorn		
1.00	EQUIP OPER	Joel	Monahan		
ALL PRICES AR	ENET PAVARIA	=	Subtotal		5,240.15
	DWING DATE OF		Sales Tax		193.74
INVOICE. 11/	2% CHARGED		Total Invoice Amount		5,433.89
	IF ACCOUNT IS E DISCOUNT OF		Payment/Credit Applied		
			TOTAL		5,433.89
\$	1,310.03				0,703.03

ONLY IF PAID ON OR BEFORE Apr 5, 2013

ALLIED OIL & GAS SERVICES, LLC 060354

CEMENT

HANDLING 162.09

MILEAGE 7.4 X

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend, KS

DATE 3-11-13	SEC. 25	TWP. 175	RANGE 244	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
Fran K LEASE UMMel	WELL#	l	Ness City LOCATIONS		1,75m-	COUNTY Ness	STATE
OLD OR NEW (C	ircle one)						

CONTRACTOR Malland

sino
T.B. 217 FY
DEPTH 2 10.4 \$4
DEPTH
DEPTH
DEPTH
MINIMUM
SHOE JOINT 20 F+
1.272 661, 5,354
-
Fresh Water
ENT

CEMENTER Charles EIKing PUMP TRUCK <u>#318</u> HELPERJos L Iscac + Mike Scothorn BULK TRUCK # 341 DRIVER Joel Monahan BULK TRUCK DRIVER #

REMARKS:

Pump 5661s Fresh Water	
Nix & Punp 36 5613 Ce ment Displace with 12.5 bble Fresh Wats Ledve 2064, 1.272 bble, 5.355 Cement Circulate 6 bble, 2559 cement to 5	(150sv)
Displace with 12.5 bbls Fresh Wata	or
Leave 205+, 1,272 /6/1, 5,351 Cement	in Cesino
Claculate 6 bbbs, 2554 cement to	Surface -
•	
12:35 AM Pluy Down	

CHARGE TO:	Pelomino	Petroleun	r, Inc.
STREET			/
CITY	STAT	c	710

+2%6601 2.685.00 @17.90 :50 COMMON POZMIX @ @ 23.40 GEL 70.20 @ 64.00 CHLORIDE 320. ASC 0

@ @ 0

0

@

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0

0

@Z.V

. Cor

AMOUNT ORDERED 150 sx "A"+3% Cont

OWNER Palemino Petroleum, Inc.

SERVICE

8

1.00
35. 20
~
<u>609</u>

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@
······	@

TOTAL _____

SALES TAX (If Any)
TOTAL CHARGES 5.240.13
/ · 3/0· 22 DISCOUNT IF PAID IN 30 DAYS
3.930,71

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME SIGNATURE

TOTAL 3.63

iS



DRILL STEM TEST REPORT

Prepared For: Palomino Petroleum, Inc.

4924 SE 48th St Newton, KS 67114

ATTN: Ryan Seib

Frank Ummel #1

25-17s-24w Ness,KS

Start Date: 2013.03.17 @ 16:32:45 2013.03.18 @ 00:39:45 End Date: Job Ticket #: 52692 DST #: 1

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.03.21 @ 13:30:25

RILOBITE	Palomino Petroleum, Inc.	ST REP		47-04	No oo KO		
TESTING, IN					Ness,KS		
	4924 SE 48th St New ton, KS 67114			nk Umr Ticket: 52		DST#:	1
	ATTN: Ryan Seib)13.03.17 @		
GENERAL INFORMATION:							
Formation:Cherokee SandDeviated:NoWhipstockTime Tool Opened:19:19:15Time Test Ended:00:39:45	ft (KB)		Tes	ter: I	Conventiona Dustin Rash 66	l Bottom Ho	le (Initial)
Total Depth: 4502.00 ft (KB)	4502.00 ft (KB) (TVD) TVD) ole Condition: Fair		Ref	erence Ee KB t	evations: to GR/CF:	2452.00 2447.00 5.00	ft (CF)
Serial #: 8520 Outside Press@RunDepth: 546.84 psig Start Date: 2013.03.1 Start Time: 16:42:4	End Date:	2013.03.18 00:39:45	Capacity Last Cali Time On Time Off	b.: Btm: :	2013.03.17 (2013.03.17 (-	1 0
TEST COMMENT: IF-Strong build ISI-No Return. FF-Strong buil FSI-No Return Pressure v	ding blow . BOB @ 8 minutes 30 se	conds.			RE SUMM		<u></u>
2220	6520 Temperature	Time	Pressure	Temp	Annotatio		
L I V		nne	litessure		Annotatio	n	
		(Min.)	(psig)	(deg F)			
200	120 120 17 110	1	1 1	(deg F)	Initial Hydro	o-static	
		(Min.) 0 1 31	(psig) 2136.51 34.21 347.03	(deg F) 108.22 107.70 113.01	Initial Hydro Open To Fl Shut-In(1)	o-static low (1)	
	110	(Min.) 0 1 31 63	(psig) 2136.51 34.21 347.03 1289.49	(deg F) 108.22 107.70 113.01 119.26	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir	o-static low (1) n(1)	
	110	(Min.) 0 1 31 63	(psig) 2136.51 34.21 347.03	(deg F) 108.22 107.70 113.01 119.26	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl	o-static low (1) n(1)	
	110 100 100 100	(Min.) 0 1 31 63 63	(psig) 2136.51 34.21 347.03 1289.49 348.86	(deg F) 108.22 107.70 113.01 119.26 118.96	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir	o-static low (1) n(1) low (2) n(2)	
		(Min.) 0 1 31 53 63 63 94 126	(psig) 2136.51 34.21 347.03 1289.49 348.86 546.84 1288.25	(deg F) 108.22 107.70 113.01 119.26 118.96 123.68 123.37	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir	o-static low (1) n(1) low (2) n(2)	
	нись ринись	(Min.) 0 1 31 53 63 63 94 126	(psig) 2136.51 34.21 347.03 1289.49 348.86 546.84 1288.25	(deg F) 108.22 107.70 113.01 119.26 118.96 123.68 123.37 122.24	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir	o-static low (1) n(1) low (2) n(2)	
1750 120 120 120 120 120 120 120 12	нись ринись	(Min.) 0 1 31 53 63 63 94 126	(psig) 2136.51 34.21 347.03 1289.49 348.86 546.84 1288.25	(deg F) 108.22 107.70 113.01 119.26 118.96 123.68 123.37 122.24	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	static low (1) n(1) low (2) n(2) static	as Rate (Mcf/d)
1750 120 120 120 120 120 120 120 12	110 110 100 100 100 100 100 100	(Min.) 0 1 31 53 63 63 94 126	(psig) 2136.51 34.21 347.03 1289.49 348.86 546.84 1288.25	(deg F) 108.22 107.70 113.01 119.26 118.96 123.68 123.37 122.24 Ga	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	static low (1) n(1) low (2) n(2) static	as Rate (Mcf/d)
120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 1100 120 1100 200 1100 201 1100 Sun Mar 2013 1100 Find Description 303.00 85% Water/15% Mud 504.00 65% Water/35% Mud	лана страна стр	(Min.) 0 1 31 53 63 63 94 126	(psig) 2136.51 34.21 347.03 1289.49 348.86 546.84 1288.25	(deg F) 108.22 107.70 113.01 119.26 118.96 123.68 123.37 122.24 Ga	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	static low (1) n(1) low (2) n(2) static	ras Rate (Mcf/d)
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1720 120 120 120 120 120 120 120 1	лана страна стр	(Min.) 0 1 31 53 63 63 94 126	(psig) 2136.51 34.21 347.03 1289.49 348.86 546.84 1288.25	(deg F) 108.22 107.70 113.01 119.26 118.96 123.68 123.37 122.24 Ga	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	static low (1) n(1) low (2) n(2) static	as Rate (Mct/d)

х 1

Participant Partit	RILOBITE	DRILL STEM TES	T REP					
Newton, KS 67114 Job Ticks: 52692 DST#: 1 ATIN: Ryan Seib Test Start: 2013.03.17 @ 16:32:45 GENERAL INFORMATION: Formation: Cherokee Sand Deviated: No. Whipstock: ff (KB) Time Tool Dopent: 19:19:15 Test Type: Conventional Bottom Hole (hilds) Time Tool Dopent: 19:19:15 Test Type: Conventional Bottom Hole (hilds) Time Tool Dopent: 4502.00 ff (KB) TO 4502.00 ff (KB) (TVD) Test Type: Conventional Bottom Hole (hilds) Total Dopin: 4502.00 ff (KB) TO 4502.00 ff (KB) (TVD) Test Type: Conventional Bottom Hole (hilds) Total Dopin: 4502.00 ff (KB) TO 4502.00 ff (KB) (TVD) Reference Elevations: 2452.00 ff (KB) Start Date: 2013.03.18 Last Cable: 2013.03.18 S000.00 psig Start Time: 16:42:30 End Time: 2013.03.18 Last Cable: 2013.03.18 TEST COMMENT: F-Strong building blow. BOB @ 7 minutes. SNo Return. F-Strong building blow. BOB @ 7 minutes. Time Off Birr TEST COMMENT: F-Strong building blow. BOB @ 7 minutes. Time Off Birr Time Off Birr Test Type: Convert Gas Rates Chea(inthe) Test (rets) Time (noil) Test (rets) T	I A A A A A A A A A A A A A A A A A A A			25-17s-24w Ness,KS				
ATTX: Ryan Seb Test Start: 2013.03.17 @ 16:32:45 Serial #: 3554 There is the factor of the factor o	ESTING, M					507		
Cherokee Sand Deviate: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 19:19:15 Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 19:19:15 Test Type: Conventional Bottom Hole (Initial) Train Depth: 4365:00 ft (KB) To 4502:00 ft (KB) (TVD) Reference Elevations: 2452:00 ft (KB) Total Depth: 2052:00 ft (KB) (TVD) Reference Elevations: 2452:00 ft (KB) 2447:00 ft (KB) Preseig@RunDepth: 2013:03:17 End Date: 2013:03:18 Last Calib.: 2013:03:18 Start Date: 2013:03:18 Last Calib.: 2013:03:18 Start Calib.: 2013:03:18 Start Date: 2013:03:18 Last Calib.: 2013:03:18 Start Calib.: 2013:03:18 Start Date: 2013:03:18 Last Calib.: 2013:03:18 Trme Off Btm: TEST COMMENT: F-Strong building blow. BOB @ 7 minutes. Bi-No Return. Time Off Btm: Test value: Time off Btm: Time off Btm: Time off Btm: Time off Btm: Tool off (Mainery Time off Btm: Time off Btm:		ATTN: Ryan Seib						
Deviated: No Whipstock: ft (KB) Time Tool Opened: 19:19:15 Time Tool Opened: 19:19:10 Total Depth: 4502.00 ft (KB) (TVD) Total Depth: 4502.00 ft (KB) (TVD) Total Depth: 4502.00 ft (KB) (TVD) Serial #: 3354 Inside Press@RunDepth: 2013.03.17 End Date: 2013.03.18 Start Time: 16:42:30 End Time: 00:40:00 Time On Btrix Time Off Btrix TEST COMMENT: IF-Strong building blow. BOB @ 7 minutes. SHNO Return. FF-Strong building blow. BOB @ 7 minutes. SHNO Return. FF-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. FF-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. FF-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 8 minutes 30 seconds. FSINA Return. Ff-Strong building blow. BOB @ 10 minutes. Strong building blow. FF-Strong building blow. Strong building blow. FF-Strong building blow. FF-Strong building blow. Strong building blow. FF-Strong b	GENERAL INFORMATION:							
Total Depth: 4502.00 ft (KB) (TVD) 2447.00 ft (CF) Hole Diameter: 7.88 inchesHole Condition: Fair KB to GRCF: 5.00 ft Serial #: 8354 Inside 8000.00 psig Frees@RunDepth: psig @ 4467.00 ft (KB) Capacity: 8000.00 psig Start Date: 2013.03.18 Time On Btm: 2013.03.18 Time On Btm: TEST COMMENT: Fr-Strong building blow. BOB @ 7 minutes. ISH-No Return. FF-Strong building blow. BOB @ 8 minutes 30 seconds. FSI-No Return. FF-Strong building blow. BOB @ 8 minutes 30 seconds. FSI-No Return. Freeswere vs. Time Time on Btm: Time on Btm: Time On Btm: Time Off Btm: Test comp building blow. BOB @ 8 minutes 30 seconds. FSI-No Return. Freeswere vs. Time Time on Btm: Time on Btm: Time on Btm: Time on Btm: Time on Btm: Time on Btm: Time on Btm: Time on Btm: FSI-No Return. Freeswere vs. Time Time on Btm: Time on Btm: For severe (severe) Gas Rate (severe) Costae (notes) Annotation Minit on the severe (severe) Chase (notes) Time on Btm: Time on Btm:	Deviated: No Whipstock: Time Tool Opened: 19:19:15	ft (KB)		Tester:	Dustin Ra		Hole (Initial)	
Press@RunDepth: psig @ 4467.00 ft (KB) Capacity: 8000.00 psig Start Date: 2013.03.17 End Date: 2013.03.18 Last Calib.: 2013.03.18 Start Time: 16:42:30 End Time: 00:40:00 Time OB Bttt: Time Off Bttt: TEST COMMENT: IF-Strong building blow. BOB @ 7 minutes. ISN-No Return. FF-Strong building blow. BOB @ 8 minutes 30 seconds. FSI-No Return. Pressure ver time or foregrame ver time or foregrame ver time or foregrame ver time of fease methods and the second vertices of the second ver	Total Depth: 4502.00 ft (KB) (VD)				2447	.00 ft (CF)	
ISI-No Return. FF-Strong building blow . BOB @ 8 minutes 30 seconds. FSI-No Return. Pressure ver. Time Pressure ver. Time Pressure Temp (Min.) Pressure (rigg) Annotation (Min.) (rigg)	Press@RunDepth: psig Start Date: 2013.03.17	End Date:		Last Calib.: Time On Btm:				
Image: constraint of the second se	BO54 Pressure		Time					
Length (ft)DescriptionVolume (bbl)303.0085%Water/15%Mud2.06504.0065%Water/35%Mud7.07		100 100 100 100 100 100 100 100	(Min.)	1 1	· •	tation		
Length (ft) Description Volume (bbl) 303.00 85% Water/15% Mud 2.06 504.00 65% Water/35% Mud 7.07	Recovery				Gas Rate	5		
504.00 65%Water/35%Mud 7.07		Volume (bbl)					Gas Rate (Mcf/d)	
	303.00 85% Water/15% Mud	2.06		ll	I			
295.00 15%Water/85%Mud 4.14	504.00 65% Water/35% Mud	7.07						
	295.00 15%Water/85%Mud	4.14						

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			DRIL	DRILL STEM TEST REPORT				
	RILOE		Palomino	Petroleum	ı, Inc.		25-17s-24w Ness,K	(S
	EST	TING , INC	4924 SE	48th St			Frank Ummel #1	
			New ton,	KS 67114			Job Ticket: 52692	DST#: 1
			ATTN:	Ryan Seib			Test Start: 2013.03.17	@ 16:32:45
Tool Informatio	on							
Drill Pipe:	Length:	4111.00 ft	Diameter:	3.80	inches Volume:	57.67 bbl	Tool Weight:	3000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70	inches Volume:	0.00 bbl	Weight set on Packe	er: 25000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25	inches Volume:	1.18 bbl	Weight to Pull Loose	
Drill Pipe Above ł	KB.	14.00 ft			Total Volume:	58.85 bbl	Tool Chased	0.00 ft
Depth to Top Pac		4365.00 ft					String Weight: Initial	
Depth to Bottom I		ft					Final	64000.00 lb
Interval between		137.00 ft						
Tool Length:		165.00 ft						
		0	Diameter:	6.75	inches			
Number of Packe	ers:	2						
Number of Packe Tool Comments: Tool Descriptio				Serial No		Depth (ft) A	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptic Change Over Sul	on		ngth (ft)			4338.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool	on		n gth (ft) 1.00 5.00			4338.00 4343.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool	on		ngth (ft) 1.00 5.00 5.00			4338.00 4343.00 4348.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool	on		n gth (ft) 1.00 5.00			4338.00 4343.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool	on		ngth (ft) 1.00 5.00 5.00			4338.00 4343.00 4348.00	ccum. Lengths	
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00			4338.00 4343.00 4348.00 4353.00 4356.00 4361.00	ccum. Lengths	Bottom Of Top Packer
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00			4338.00 4343.00 4348.00 4353.00 4356.00 4361.00 4365.00		Bottom Of Top Packer
Number of Packe Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00			4338.00 4343.00 4348.00 4353.00 4356.00 4361.00		Bottom Of Top Packer
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	on		ngth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00			4338.00 4343.00 4348.00 4353.00 4356.00 4361.00 4365.00		Bottom Of Top Packer
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations	on b		ength (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 5.00 1.00			4338.00 4343.00 4348.00 4353.00 4356.00 4361.00 4365.00 4366.00		Bottom Of Top Packer
Number of Packe Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Change Over Sul	on b		angth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 5.00			4338.00 4343.00 4348.00 4353.00 4356.00 4361.00 4365.00 4366.00 4371.00		Bottom Of Top Packer
Number of Packer Tool Comments: Tool Description Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Perforations Change Over Sul Drill Pipe	<mark>on</mark> b		ength (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 5.00 1.00			4338.00 4343.00 4348.00 4353.00 4356.00 4361.00 4365.00 4366.00 4371.00 4372.00		Bottom Of Top Packer
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Change Over Sul Drill Pipe Change Over Sul	<mark>on</mark> b		angth (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 5.00 1.00 94.00		. Position	4338.00 4343.00 4348.00 4353.00 4356.00 4361.00 4365.00 4365.00 4366.00 4371.00 4372.00 4466.00		Bottom Of Top Packer
Number of Packer Tool Comments: Tool Descriptic Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Change Over Sul Drill Pipe Change Over Sul Recorder	<mark>on</mark> b		ength (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 94.00 1.00	Serial No	. Position	4338.00 4343.00 4348.00 4353.00 4356.00 4361.00 4365.00 4366.00 4371.00 4372.00 4466.00 4467.00		Bottom Of Top Packer
Number of Packe Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer	<mark>on</mark> b		ength (ft) 1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00 94.00 1.00 94.00 1.00 0.00	Serial No	. Position	4338.00 4343.00 4343.00 4353.00 4355.00 4361.00 4365.00 4366.00 4371.00 4372.00 4466.00 4467.00		Bottom Of Top Packer
Number of Packer Tool Comments: Tool Descriptio Change Over Sul Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Perforations Change Over Sul Drill Pipe Change Over Sul Recorder Recorder	<mark>on</mark> b		ength (ft) 1.00 5.00 5.00 3.00 5.00 4.00 1.00 94.00 1.00 94.00 0.00	Serial No	. Position	4338.00 4343.00 4343.00 4353.00 4356.00 4365.00 4365.00 4366.00 4371.00 4372.00 4466.00 4467.00 4467.00	28.00	Bottom Of Top Packer

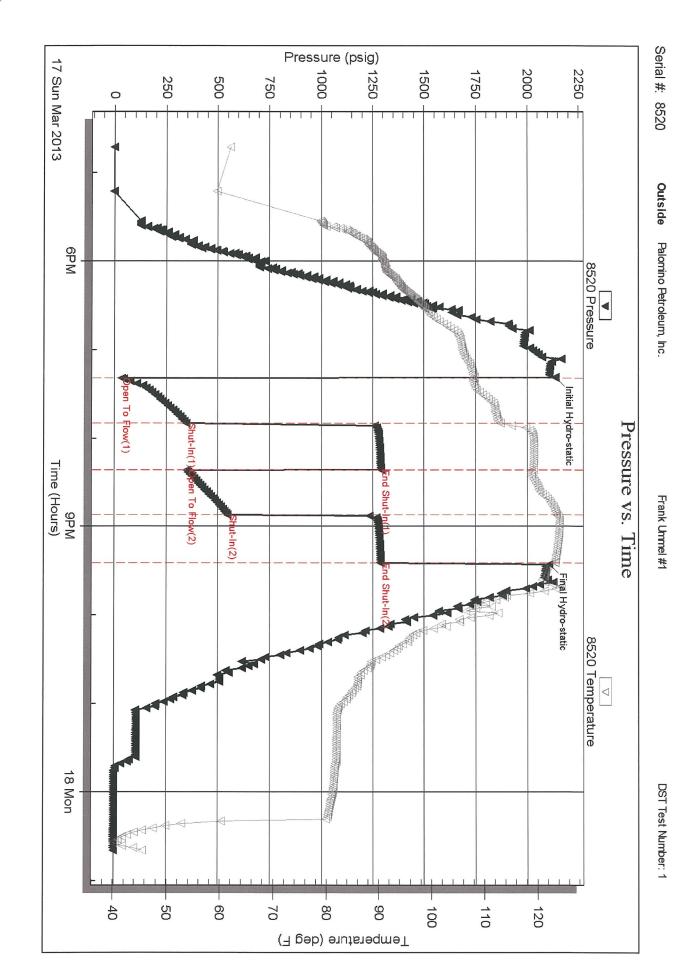
Image: Set Chem Description Presentation Set Start Set Start <thset start<="" th=""> <thset start<="" th=""> Set St</thset></thset>			DRI	ILL STEM TEST R	EPORT	-	F	LUID SUMMARY
New ton, KS 67114 Job Ticket: 52692 DST#:1 ATTN: Ryan Seib Test Start: 2013.03.17 @ 16:32:45 Mud and Cushion Information Mud Type: Gel Chem Cushion Type: Oll AP: deg API Mud Yupe: 10:00 lb/gal Cushion Length: ft Water Salinity: 12000 ppm Viscosity: 42.00 sec/qt Cushion Volume: bbl bd Viscosity: 12000 ppm Viscosity: 0.99 ohm.m Gas Cushion Type: Bas Viscosity: 12000 ppm Pilter Cake: inches Escovery Table Viscosity: 12000 ppm Recovery Table Length Description Volume 1030.00 85%Water/15%Mud 2.064 2.064 504.00 65%Water/35%Mud 7.070 2.95.00 15%Water/35%Mud 4.138 Total Length: 1102.00 ft Total Volume: 13.272 bbl Laboratory Name: Laboratory Location: Serial #: Laboratory Name: Serial #:	ESTING, INC		Palomino Petroleum, Inc.			25-17s-24v	w Ness,KS	
New ton, KS 67114 Job Ticket: 52692 DST#:1 ATTN: Ryan Seib Test Start: 2013.03.17 @ 16:32:45 Mud and Cushion Information Mud Type: Gel Chem Cushion Type: Oll AP: deg API Mud Yupe: 10:00 lb/gal Cushion Length: ft Water Salinity: 12000 ppm Viscosity: 42.00 sec/qt Cushion Volume: bbl bd Viscosity: 12000 ppm Viscosity: 0.99 ohm.m Gas Cushion Type: Bas Viscosity: 12000 ppm Pilter Cake: inches Escovery Table Viscosity: 12000 ppm Recovery Table Length Description Volume 1030.00 85%Water/15%Mud 2.064 2.064 504.00 65%Water/35%Mud 7.070 2.95.00 15%Water/35%Mud 4.138 Total Length: 1102.00 ft Total Volume: 13.272 bbl Laboratory Name: Laboratory Location: Serial #: Laboratory Name: Serial #:			4924 S	SF 48th St		Frank Um	mel #1	
ATTN: Ryan Seib Test Start: 2013.03.17 @ 16:32:45 Mud and Cushion Information Mud Type: Gel Chem Cushion Type: Oil API: deg API Mud Vieight: 10.00 lb/gal Cushion Length: ft Water Salinity: 12000 ppm Viscosity: 42.00 sec/qt Cushion Volume: bbl Water Salinity: 12000 ppm Viscosity: 42.00 sec/qt Cushion Volume: bbl Water Salinity: 12000 ppm Water Loss: 7.20 in ³ Gas Cushion Type: Besistivity: 0.99 ohm.m Gas Cushion Pressure: psig Salinity: 1800.00 ppm Filter Cake: inches Fecovery Information Fecovery Table Recovery Table Telength Description Volume ft 033.00 85% Water/15% Mud 2.064 504.00 65% Water/35% Mud 4.138 Fotal Length: 1102.00 ft Total Volume: 13.272 bbl Mum Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:		-						DST#:1
Mud Type: Gel Chem Cushion Type: Oil API: deg API Mud Weight: 10.00 lb/gal Cushion Length: ft Water Salinity: 12000 ppm Viscosity: 42.00 sec/qt Cushion Volume: bbl Water Loss: 7.20 in ³ Gas Cushion Type: Resistivity: 0.99 ohm.m Gas Cushion Pressure: psig Salinity: 1800.00 ppm Filter Cake: inches Recovery Information Filter Cake: inches Recovery Table Length Description Volume ft Description Volume Solitor 42.064 504.00 65% Water/15% Mud 2.064 504.00 65% Water/35% Mud 4.138 Total Length: 1102.00 ft Total Volume: 13.272 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:			ATTN: Ryan Seib					
Mud Weight: 10.00 lb/gal Cushion Length: ft Water Salinity: 12000 ppm Viscosity: 42.00 sec/qt Cushion Volume: bbl Water Loss: 7.20 in ³ Gas Cushion Type: Resistivity: 0.99 ohm.m Gas Cushion Pressure: psig Salinity: 1800.00 ppm Filter Cake: inches Recovery Information Recovery Table Length Description Volume bbl 303.00 85%Water/15%Mud 2.064 504.00 65%Water/35%Mud 4.138 Total Length: 1102.00 ft Total Volume: 13.272 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:	Mud and Cu	ushion Information			<u></u>			
Mud Weight: 10.00 lb/gal Cushion Length: ft Water Salinity: 12000 ppm Viscosity: 42.00 sec/qt Cushion Volume: bbl Water Loss: 7.20 in³ Gas Cushion Type: Resistivity: 0.99 ohm.m Gas Cushion Pressure: psig Salinity: 1800.00 ppm Filter Cake: inches Recovery Information Recovery Information Recovery Table Length Description Volume bbl Volume Volume bbl Volume	Mud Type: G	el Chem		Cushion Type:			Oil API:	deg API
Water Loss: 7.20 in ³ Gas Cushion Type: Resistivity: 0.99 ohm.m Gas Cushion Pressure: psig Salinity: 1800.00 ppm Filter Cake: inches Recovery Information Recovery Table Length Description Volume bbl 303.00 85%Water/15%Mud 2.064 504.00 65%Water/35%Mud 7.070 295.00 15%Water/85%Mud 4.138 Total Length: 1102.00 ft Total Volume: 13.272 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location: Serial #:						ft	Water Salinity:	_
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Recovery TableLength ftDescriptionVolume bbl303.0085%Water/15%Mud2.064303.0065%Water/35%Mud7.070295.0015%Water/85%Mud4.138Total Length:1102.00 ftTotal Volume:13.272 bblNum Fluid Samples: 0Num Gas Bombs:0Serial #:Laboratory Name:Laboratory Location:Serial #:	1							
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295.0015% Water/85% Mud4.138Total Length:1102.00 ftTotal Volume:13.272 bblNum Fluid Samples:0Serial #:Laboratory Name:Laboratory Location:			303.00	85%Water/15%Mud		2.064	4	
Total Length: 1102.00 ft Total Volume: 13.272 bbl Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:								
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: Laboratory Name: Laboratory Location:			295.00	15%Water/85%Mud		4.13	8	
Laboratory Name: Laboratory Location:		Total Length:	1102	2.00 ft Total Volume:	13.272 bbl			
				Num Gas Bombs:	0	Serial #	ŧ:	
Recovery Comments:				Laboratory Location	ı:			
		Recovery Com	nents:					

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Printed: 2013.03.21 @ 13:30:27

Ref. No: 52692

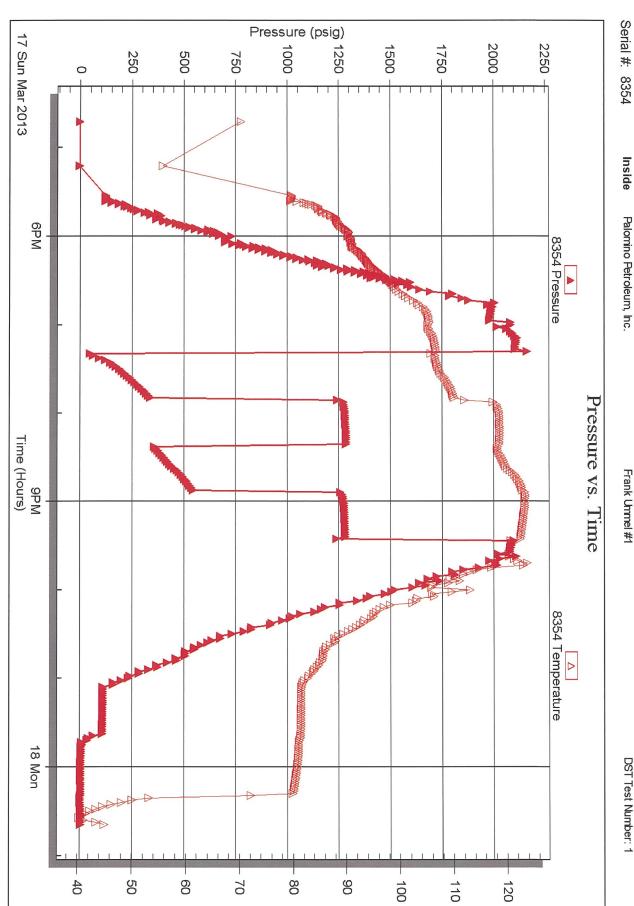
Trilobite Testing, Inc





Ref. No: 52692

Trilobite Testing, Inc



Temperature (deg F)

Inside

Frank Ummel #1

DST Test Number: 1

4/10	RILOBITE ESTING INC. 1515 Commerce Parkway	• Hays, Kansas 6760)1	Test NO.	Ticket 51692	
	iank Ummel ino Perioleum, I	# 	Test No Elevation	- 5Z	Date <u>3</u> -1 кв <u>244</u>	7-13 7
Address	Jan		- Mall	aid	1	
Co. Rep / Geo.	Twp. 175	7411)		ain		165
	*		_co. Ness	0	State	<u></u>
Interval Tested 436	3-4302	Zone Tested	Lerokee		-	
Anchor Length / 5	7	Drill Pipe Run	4/11		Mud Wt. 9,5	
Top Packer Depth 4		_	240.43		Vis <u> </u>	
Bottom Packer Depth 4		Wt. Pipe Run	$\overline{\mathcal{O}}$		WL L.C.	
Total Depth 4300		_ Chlorides			LCM	
Blow Description	- Strong build	ng blow, BO,	BO TMIAN	res.	anan an	
LAC-NOR	PTUIN	-			1	
	s building blod	W <u>, BOB @ </u>	MEAURES ST	O Slee	ords,	an a
	eet of Water Ma	id	%gas	%oil	15%water	85%mud
Rec 504 F	eet of Muddy We	2Rel	%gas	%oil	65 %water	35%mud
Rec 303 F	eet of Muddly 11	brei	%gas	%oil	85 %water	15%mud
Rec Fe	eet of		%gas	%oil	%water	%mud
RecF	eet of		%gas	%oil	%water	%mud
Rec Total 1/02	внт 124	Gravity	APIRW 1988 @3	7_°F	Chlorides 120	00 ppm
(A) Initial Hydrostatic	2137	Test 1250			cation <u>1500</u>	
(B) First Initial Flow	34	🖞 Jars 250		T-Starte	d 1645	
(C) First Final Flow	347	Safety Joint	5	T-Open	1920	
(D) Initial Shut-In	, 89	Circ Sub		T-Pullec	12125	annan de Martin and an de men e a casa e a casa
(E) Second Initial Flow		Hourly Standby			$\frac{004s}{7}$	~ <u>~</u>
(F) Second Final Flow		9 Mileage 7/	XZ 220.10	Comme	ints Barr-16	52
(G) Final Shut-In		□ Sampler		des Schwarz dir in Schlichten der	der dim de blev der bestelle eine die bestelle einschart d'er in seiner son ander blev in samme an yw (2000)	
(H) Final Hydrostatic	Tal	Straddle			and Chalo Destas	
		Shale Packer			ned Shale Packer_	
Initial Open <u>30</u>		Extra Packer			ned Packer	
Initial Shut-In3C)	Extra Recorder		Sub Tot	a Copies	
Final Flow	30	Day Standby			1795.10	
Final Shut-In		Accessibility			T Disc'ty	
		Sub Total				1
Approved By			Representative		H Sh	

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made