

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1116600

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:		Fe	eet from North / South Line of Section
City: State: Zip:	+	Fe	eet from East / West Line of Section
Contact Person:		Footages Calculated from I	Nearest Outside Section Corner:
Phone: ()			
CONTRACTOR: License #			
Name:			Well #:
Wellsite Geologist:			vven #
-			
Purchaser:			
Designate Type of Completion:	-		Kelly Bushing:
New Well Re-Entry	Workover	Total Depth: Plu	ug Back Total Depth:
Oil WSW SWD	SIOW	Amount of Surface Pipe Se	et and Cemented at: Feet
Gas D&A ENHR	SIGW	Multiple Stage Cementing	Collar Used? 🗌 Yes 🗌 No
☐ OG ☐ GSW	Temp. Abd.	If yes, show depth set:	Feet
CM (Coal Bed Methane)		If Alternate II completion, c	ement 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 Managemer	at Blan
Well Name:		(Data must be collected from th	
Original Comp. Date: Original Tota	al Depth:	Oblarida contenti	ppm Fluid volume: bbls
Deepening Re-perf. Conv. to E	NHR Conv. to SWD		
Conv. to G	SW	Dewatering method used: _	
Plug Back: Plug I Plug	Back Total Depth	Location of fluid disposal if	hauled offsite:
Commingled Permit #:		Operator Name	
Dual Completion Permit #:			License #:
SWD Permit #:			
ENHR Permit #:			TwpS. R East West
GSW Permit #:		County:	Permit #:
	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	1116600
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		-	on (Top), Depth an		Sample
Samples Sent to Geolog	ical Survey	Yes No	Nam	e		Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted E (If no, Submit Copy)	Electronically	<pre> Yes □ No Yes □ No Yes □ No</pre>					
List All E. Logs Run:							
		CASING	RECORD Ne	ew Used			
		Report all strings set-	conductor, surface, inte	ermediate, product	tion, 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 Specify Fo		RD - Bridge F Each Interval		e			ement Squeeze Record I of Material Used)	Depth
TUBING RECORD:	Siz	ze:	Set At:		Packer	At:	Liner R	un:	No	
Date of First, Resumed F	Product	ion, SWD or ENH	۲.	Producing N	_	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
									Ι	
DISPOSITIO	N OF C	BAS:			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)					

CONSOLIDATED Oil Well Services, LLC	REMIT Consolidated Oil We Dept. 9 P.O. Box Houston, TX 7	ell Services, LLC 970 4346	Chanu 620/431-9210 • 1-	AIN OFFICE P.O. Box 884 ite, KS 66720 800/467-8676 620/431-0012
INVOICE		•	Invoice #	252
Invoice Date: 08/17/2012	Terms: 10/10/30,r	n/30	· · · · · · · · · · · · · · · · · · ·	age
PRATER OIL & GAS 1303 N. MAIN PATT KS 67124 (620)672-7600		OTTLEY 1-21 37066 21-10-31 08-16-2012 KS		
1107 FLO-SEA		Qty 220.00 757.00 55.00 1.00	.2500 2.8200	To 3322 189 155 96
JJJ0 200	NATERIAL DISCOUN EQUIPMENT DISCOUN			То -376 -178
Description 399 P & A NEW WELL 399 EQUIPMENT MILEAGE (ONH 566 MIN. BULK DELIVERY	S WAY)	Hours 1.00 10.00 1.00	5.00	To 1325 50 410
plugging		Cop ~		

Amount Due 5822.01 if paid after 09/16/2012

 Parts:
 3762.35 Freight:
 .00 Tax:
 247.19 AR
 5239

 Labor:
 .00 Misc:
 .00 Total:
 5239.80

 Sublt:
 -554.74 Supplies:
 .00 Change:
 .00

Signed

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-2227 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269

Date

GILLETTE, W1 307/686-4914

CONSOLIDATED Oil Well Services, LLC	REMIT TO Consolidated Oil Well Services, LLC Dept. 970 P.O. Box 4346 Houston, TX 77210-4346	MAIN O P.O. B Chanute, KS 620/431-9210 • 1-800/467 Fax 620/43	ox 8 661 7-86
INVOICE		Invoice #	25
	Cerms: 10/10/30,n/30	Page	
PRATER OIL & GAS 1303 N. MAIN PATT KS 67124 (620)672-7600	OTTLEY #1-21 37093 21-10-31 08-07-2012 KS		
1102 CALCIUM	" CEMENT (SALE) 200.00	.8900	T 53 50 9
	ion ATERIAL DISCOUNT QUIPMENT DISCOUNT		Т 41 15
Description 460 MIN. BULK DELIVERY 463 CEMENT PUMP (SURFACE) 463 EQUIPMENT MILEAGE (ONE	1.00		T 41 08 2

coment surface

Amount Due 5947.15 if paid after 09/07/201:

cop

 Parts:
 4125.96 Freight:
 .00 Tax:
 271.07 AR
 5352

 Labor:
 .00 Misc:
 .00 Total:
 5352.43

 Sublt:
 -564.60 Supplies:
 .00 Change:
 .00

Signed

BARTLESVILLE, OK 918/338-0808

EL DORADO, KS 316/322-7022

EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-2227

OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269

Date

GILLETTE, WY 307/686-4914



DRILL STEM TEST REPORT

Prepared For: Prater Oil & Gas Operation

1303 N. Main Pratt, KS 67124

ATTN: Scott Alberg

Ottley #1-21

21-10s-31w Thomas,KS

 Start Date:
 2012.08.13 @ 09:16:20

 End Date:
 2012.08.13 @ 16:31:44

 Job Ticket #:
 48408
 DST #: 1

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

Image: String inclusion of the string inclast of the string inclast of the string inclusion of					ORT	TREP	MTES	DRILL STEM	RILOBITE	an-
Prati, KS 67124 ATTN: Scott Alberg Test KS 67124 ATTN: Scott Alberg Test Start: 2012.08.13 @ 09:16:20 GENERAL INFORMATION: Formation: HJK Deviated: No Whipstock: ft (KB) The Tool Opened: 11:46:15 Time Test Ended: 16:31:44 Unit No: 60 Reference Elevations: 2979.00 ft (KB) Tool Depth: 4255.00 ft (KB) (TVD) 2969.00 ft (KB) Serial #: 8373 Inside Press@RunDepth: 73.25 psig @ 4141.00 ft (KB) Start Time: 09:16:20 End Time: 16:31:44 TEST COMMENT: F: 1/4" blow built to 3 1/2" 30 min. ES: No return. FS: No retu		as,KS	r Thomas,	10s-31w	21-		ation	Prater Oil & Gas Operat		
Job Ticket: 49406 LST#:1 ATTN: Scott Alberg Test Start: 2012.08.13 @ 09:16:20 GENERAL INFORMATION: Formation: HJK Deviated: No Whipstock: ft (KB) Time Tool Opened: 11:46:15 Test Type: Conventional Bottom Hole (Initi Tester: Time Tool Opened: 11:46:15 Test Type: Conventional Bottom Hole (Initi Tester: Total Depth: 4255.00 ft (KB) (TVD) Reference Elevations: 2979.00 ft (K Hole Dameter: 7.88 inchesHole Condition: Good KB to GR/CF: 10.00 ft Serial #: 8373 Inside Start Date: 2012.08.13 East Calib.: 2012.08.13 Start Time: 09:16:20 End Time: 16:31:44 Time On Bim: 2012.08.13 @ 11:44:15 Time Off Bitr: 2012.08.13 End Date: 2012.08.13 @ 14:45:44 TEST COMMENT: IF: 1/4" blow built to 3 1/2" 30 min. IS: No return. FS: Wo return. FS: Week blow built to 3 '1/2" 30 min. FS: No return. FS: Wo return. FS: Wo return. FS: Wo return. 11:8.38 point of point (1) 90 90 11:8.31 11:8.31 11:8.31 11:8.31 11:8.31 11:3.33 90 9				-					ESTING , INC.	
GENERAL INFORMATION: Formation: HJ/K Deviated: No Whipstock: ft (KB) Time Tool Opened: 11:46:15 Test Type: Conventional Bottom Hole (hill Time Tool Opened: 11:46:15 Tester: Brandon Turley Unit No: 60 Interval: 4140.00 ft (KB) To 4255.00 ft (KB) (TVD) Total Depth: 4255.00 ft (KB) (TVD) Total Depth: 4255.00 ft (KB) (TVD) Reference Elevations: 2979.00 ft (C Bornateir: 7.88 inchesHole Condition: Good KB to GR/CF: 10.00 ft Serial #: 8373 Inside Press@RunDepth: 73.25 psig @ 4141.00 ft (KB) Capacity: 8000.00 psig Start Date: 2012.08.13 End Date: 2012.08.13 End Time: Start Time: 09:16:20 End Time: 16:31:44 Time On Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08.13 @ 11:44:15 Time Weak blow built to 31/2" 30 min. Bis: No return. Fire Weak b		-								
Formation: HJK Deviated: No Whipstock: ft (KB) The Tool Opened: 11:46:15 Time Test Ended: 16:31:44 Interval: 4140.00 ft (KB) To 4255.00 ft (KB) (TVD) Total Depth: 4255.00 ft (KB) (TVD) Total Depth: 4255.00 ft (KB) (TVD) Total Depth: 73.25 psig @ 4141.00 ft (KB) Press @RunDepth: 73.25 psig @ 4141.00 ft (KB) Serial #: 8373 Inside Press @RunDepth: 73.25 psig @ 4141.00 ft (KB) Start Date: 2012.08.13 End Date: 2012.08.13 Start Time: 09:16:20 End Time: 16:31:44 Time On Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08		; @ 09:16:20	012.08.13 @	t Start: 20	Tes			ATTN: Scott Alberg		
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Init Tree Tool Opened: 11:46:15 Time Tool Opened: 11:46:15 Unit No: 60 Interval: 4140.00 ft (KB) To 4255.00 ft (KB) (TVD) Reference Elevations: 2979.00 ft (K Total Depth: 4255.00 ft (KB) (TVD) KB to GR/CF: 10.00 ft 2969.00 ft (C Serial #: 8373 Inside 2012.08.13 End Pate 2012.08.13 East Calib.: 2012.08.13 Start Date: 09:16:20 End Time: 16:31:44 Time On Btm: 2012.08.13 @ 11:44:15 Time On Btm: 2012.08.13 @ 11:44:15 TEST COMMENT: F: 1/4" blow built to 3 1/2" 30 min. IS: No return. Time Off Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08.13 @ 11:44:15 TEST COMMENT: F: 1/4" blow built to 3 1/2" 30 min. IS: No return. FS: No return. FS: No return. Time Off Btm: 2012.08.13 @ 11:44:15 Test Tool (full) Test Tool (full) Time Off Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08.13 @ 11:44:15 Test Tool (full) FS: No return. FS: No return. Time Off Btm: 2012.08.13 @ 11:44:16									INFORMATION:	GENERAL I
Total Depth: 4255.00 ft (KB) (TVD) 2969.00 ft (C Hole Diameter: 7.88 inchesHole Condition: Good KB to GR/CF: 10.00 ft Serial #: 8373 Inside 2012.08.13 End Date: 2012.08.13 Last Calib.: 2012.08.13 Start Date: 2012.08.13 End Date: 2012.08.13 Last Calib.: 2012.08.13 000.00 psig Start Time: 09:16:20 End Time: 16:31:44 Time On Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08.13 @ 11:44:15 Time Off Btm: 2012.08.13 @ 11:44:14 TEST COMMENT: IF: 1/4" blow built to 3' 45 min. FS: No return. FF: Weak blow built to 3" 45 min. FS: No return. FF: Weak blow built to 3" 45 min. FS: No return. Freesure (Min.) 2 2.0.98 118.81 Initial Hydro-static 0 2 20.98 118.58 Open To Flow (1) 118.41 119.71 Open To Flow (2) 121 73.25 121.23 Shut-In(1) 119.71 Open To Flow (2) 121.32 Shut-In(1) 0 73.25 121.23 Shut-In(2) End Shut-In(2) End Shut-In(2) End Shu	tial)		Brandon Tur	ter:	Tes			ft (KB)	No Whipstock: med: 11:46:15	Deviated: Time Tool Oper
Press@RunDepth: 73.25 psig@ 4141.00 ft (KB) Capacity: 8000.00 psig Start Date: 2012.08.13 End Date: 2012.08.13 Last Calib.: 2012.08.13 12012.08.13 11:44:15 Start Time: 09:16:20 End Time: 16:31:44 Time On Btm: 2012.08.13 @ 11:44:15 TEST COMMENT: IF: 1/4" blow built to 3 1/2" 30 min. IS: No return. FF: Weak blow built to 3" 45 min. FS: No return. FF: Weak blow built to 3" 45 min. FS: No return. FF: Weak blow built to 3" 45 min. FS: No return. F7: Weak blow built to 3" 45 min. FS: No return. Initial Hydro-static 000000000000000000000000000000000000		2969.00 ft (CF)			Ref			/D)	4255.00 ft (KB) (T	Total Depth:
Pressure vs. Time PRESSURE SUMMARY 0 2131.04 118.81 Initial Hydro-static 0 2131.04 118.81 Initial Hydro-static 0 2131.04 118.81 Open To Flow (1) 32 44.12 118.93 Shut-In(1) 10 77 1184.48 119.97 End Shut-In(1) 0 78 49.23 119.71 Open To Flow (2) 181 1169.60 121.89 Shut-In(2) 182 1931.13 122.33 Final Hydro-static		13 @ 11:44:15	2012.08.13	b.: Btm:	Last Calil Time On			End Date: End Time: t to 3 1/2" 30 min.	MENT: IF: 1/4" blow buil IS: No return. FF: Weak blow b	Press@RunDe Start Date: Start Time:
1000 1000 1000 1000 1000 1000 1100 118.81 118.91 118.11 119.71 Open To Flow (1) 1200 121 73.25 121.23 Shut-In(1) 121 73.25 121.89 End Shut-In(2) 181 1169.60 121.89 End Shut-In(2) 181 1169.60 121.89 End Shut-In(2) 182 1931.13 122.33 Final Hydro-static 181 1123.33 Final Hydro-static		IMARY	RE SUMM	RESSU	Pf				Pressure vs. T	
200 94M 13 Mon Aug 2012 Time (Hous) 200 13 Mon Aug 2012 13 Mon Aug 2		/dro-static o Flow (1) (1) ut-In(1) o Flow (2) (2) ut-In(2)	Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir	(deg F) 118.81 118.58 118.93 119.97 119.71 121.23 121.89	(psig) 2131.04 20.98 44.12 1184.48 49.23 73.25 1169.60	(Min.) 0 2 32 77 78 121 181	120 120 115 100 100 100 100 100 100 10			
Recovery Gas Rates		; 	s Rates	Ga					Recovery	
	(Mcf/d)	essure (psig) Gas Rate (N	inches) Pressu	Choke (bbl)	. ,		
62.00 w cm 5%w 95%m 0.87 40.00 mud 100%m 0.56										

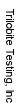
10x7		DRILL STEM TES	ST REP	ORT			
医他 L	RILOBITE	Prater Oil & Gas Operation		21-10s	31w Tho	mas,KS	
	ESTING , INC.	1303 N. Main		Ottley	#1-21		
		Pratt, KS 67124		Job Tick	et: 48408	DST	#:1
		ATTN: Scott Alberg		Test Sta	rt: 2012.08	8.13 @ 09:16:20	C
GENERAL INF	ORMATION:						
Formation: Deviated: Time Tool Opened Time Test Ended:		ft (KB)		Test Typ Tester: Unit No:		entional Bottom on Turley	Hole (Initial)
Interval: 4 ⁴ Total Depth: Hole Diameter:	140.00 ft (KB) To 42 4255.00 ft (KB) (T\ 7.88 inchesHole			Referen	ce Elevatior KB to GR/	2969.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8356 Press@RunDepth Start Date: Start Time:		 4141.00 ft (KB) End Date: End Time: 	2012.08.13 16:32:03	Capacity: Last Calib.: Time On Btm: Time Off Btm		8000. 2012.08.	00 psig 13
TEST COMME	NT: IF: 1/4" blow buił IS: No return. FF: Weak blow b FS: No return.	uilt to 3" 45 min.	1	PRES	SURE SI	UMMARY	
FI 8	386 Pressure	8386 Temperature	Time		-	notation	
2000 1720 120 120 700 200 900 900 13 Mon Aug 2012	12PM Trme (Hous)	120 110 110 100 66 60 68 60 75 70 3PM	(Min.)	(psig) (de	g F)		
	Recovery				Gas Rat	tes	
Length (ft)	Description	Volume (bbl)			Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
	cm5%w 95%m	0.87					
40.00 m	ud 100%m	0.56					
ļ		 					

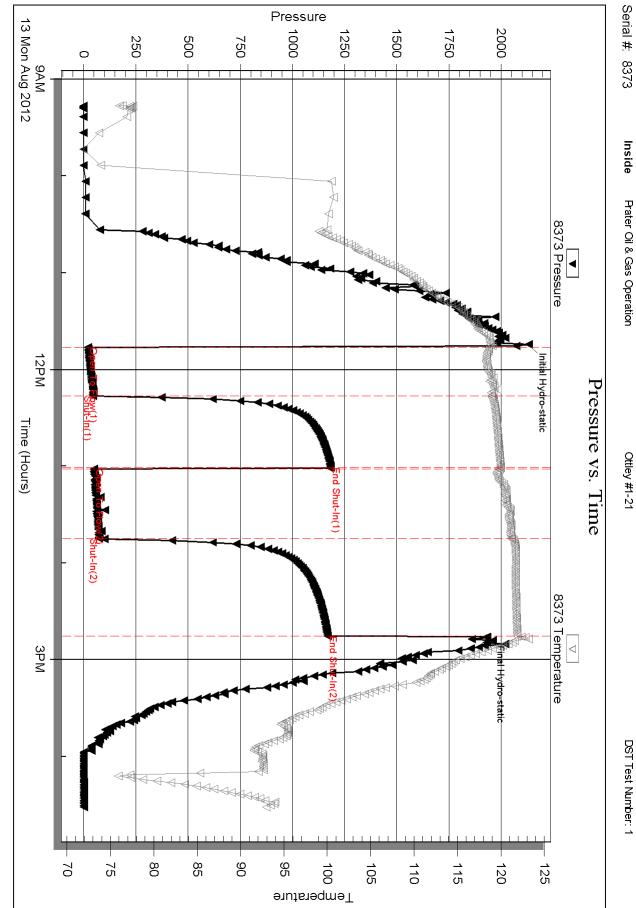
ACT TO			L STE	MTEST	REPOR	T	TOOL DIAGRA
	ILOBITE		il & Gas Opera	ation		21-10s-31w Thomas	,KS
	ESTING , INC	1303 N.	Main			Ottley #1-21	
		Pratt, KS	67124			Job Ticket: 48408	DST#:1
		ATTN:	Scott Alberg			Test Start: 2012.08.13 @	09:16:20
Tool Information		!					
Drill Pipe: Le	ength: 4116.00 ft	Diameter:	3.80 incl	hes Volume:	57.74 bbl	Tool Weight:	20000.00 lb
Heavy Wt. Pipe: Le	ength: 0.00 ft	Diameter:	0.00 incl	hes Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar: Le	ength: 0.00 ft	Diameter:	0.00 inc	hes Volume:	0.00 bbl	Weight to Pull Loose:	100000.0 lb
	1.00.5		T	otal Volume:	57.74 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft					String Weight: Initial	62000.00 lb
Depth to Top Packer:						Final	640000.0 lb
Depth to Bottom Pack Interval betw een Pac							
	ckers: 115.00 ft 143.00 ft						
Tool Length: Number of Packers:		Diameter:	6.75 inc	hos			
NUTUELULE FACINELS.	2	Diameter.	0.75 110	1169			
Tool Comments:							
Tool Comments: Tool Description	Le	• • •	Serial No.	Position		ccum. Lengths	
Tool Comments: Tool Description	Le	1.00	Serial No.	Position	4113.00	ccum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool	Le	1.00 5.00	Serial No.	Position	4113.00 4118.00	ccum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool	Le	1.00 5.00 5.00	Serial No.	Position	4113.00 4118.00 4123.00	ccum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars	Le	1.00 5.00 5.00 5.00	Serial No.	Position	4113.00 4118.00 4123.00 4128.00	ccum. Lengths	
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint	Le	1.00 5.00 5.00 5.00 3.00	Serial No.	Position	4113.00 4118.00 4123.00 4128.00 4131.00		
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer	Le	1.00 5.00 5.00 5.00 3.00 5.00	Serial No.	Position	4113.00 4118.00 4123.00 4128.00 4131.00 4136.00	ccum. Lengths	Bottom Of Top Packe
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	Le	1.00 5.00 5.00 5.00 3.00 5.00 4.00	Serial No.	Position	4113.00 4118.00 4123.00 4128.00 4131.00 4136.00 4140.00		Bottom Of Top Packe
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	Le	1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00			4113.00 4118.00 4123.00 4128.00 4131.00 4136.00 4140.00 4141.00		Bottom Of Top Packe
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00	8373	Inside	4113.00 4118.00 4123.00 4128.00 4131.00 4136.00 4140.00 4141.00 4141.00		Bottom Of Top Packe
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder	Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 0.00			4113.00 4118.00 4123.00 4128.00 4131.00 4136.00 4140.00 4141.00 4141.00		Bottom Of Top Packe
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder Perforations	Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 13.00	8373	Inside	4113.00 4118.00 4123.00 4128.00 4131.00 4136.00 4140.00 4141.00 4141.00 4141.00 4154.00		Bottom Of Top Packe
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub	Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 13.00 1.00	8373	Inside	4113.00 4118.00 4123.00 4128.00 4131.00 4136.00 4140.00 4141.00 4141.00 4141.00 4154.00 4155.00		Bottom Of Top Packe
Tool Comments: Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Sub Drill Pipe	Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 13.00 1.00 94.00	8373	Inside	4113.00 4118.00 4123.00 4128.00 4136.00 4136.00 4140.00 4141.00 4141.00 4141.00 4155.00 4249.00		Bottom Of Top Packe
	Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 13.00 1.00	8373	Inside	4113.00 4118.00 4123.00 4128.00 4131.00 4136.00 4140.00 4141.00 4141.00 4141.00 4154.00 4155.00	28.00	Bottom Of Top Packe

	RILOBI	ITF	DRI	LL S	TEMTEST	REPORT	-		FLUID	SUMMAR
施			Prater	Oil & Gas	Operation		21-10s-31v	v Thomas,	KS	
	I ESTI	I <mark>NG</mark> , INC					Ottley #1-	21		
			Pratt, K	(S 67124	1		Job Ticket: 4	8408	DST#:	1
			ATTN:	Scott A	lberg		Test Start: 2	012.08.13 @	09:16:20	
Mud and Cu	shion Info	ormation	. ļ							
••	el Chem				Cushion Type:			Oil A PI:		0 deg API
Mud Weight:	9.00 lk				Cushion Length:		ft	Water Salinit	y:	0 ppm
/iscosity:	52.00 s 7.18 ir				Cushion Volume:		bbl			
Vater Loss: Resistivity:	7.18 ir 0.00 o				Gas Cushion Type: Gas Cushion Pressu	ro.	psig			
Salinity:	2200.00 p			· ·	Cas Cushion Tressu	16.	psig			
Filter Cake:	1.00 ir									
Recovery Inf	formation									
		·			Recovery Table			1		
		Leng ft			Description		Volume bbl			
			62.00	1	%w 95%m		0.870	-		
			40.00	mud 10	0%m		0.561]		
	Tot	al Length:	102	.00 ft	Total Volume:	1.431 bbl				
	N L									
	Lab	m Fluid Sam boratory Nai covery Com	me:		Num Gas Bombs: Laboratory Locat		Serial #			
	Lab	ooratory Na	me:				Serial #			
	Lab	ooratory Na	me:				Serial #.			
	Lab	ooratory Na	me:				Serial #.			
	Lab	ooratory Na	me:				Serial #.			
	Lab	ooratory Na	me:				Serial #.			
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	Lab	ooratory Na	me:				Serial #			
	Lab	ooratory Na	me:				Serial #			
	Lab	ooratory Na	me:				Serial #			
	Lab	ooratory Na	me:				Serial #			

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Ref. No: 48408





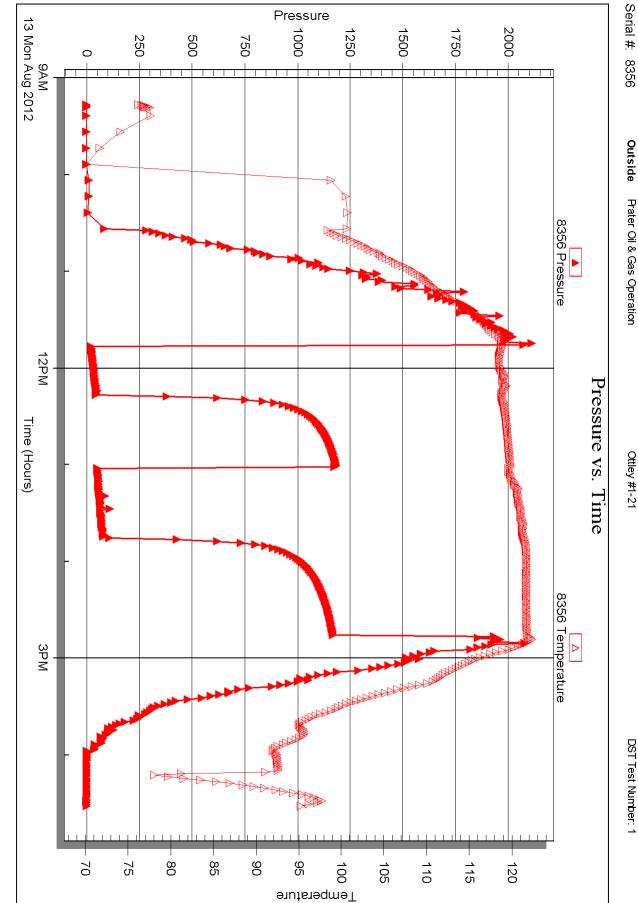
DST Test Number: 1

Serial #: 8373

Printed: 2012.08.16 @ 16:32:23

Ref. No: 48408





Prater Oil & Gas Operation

Ottley #1-21

DST Test Number: 1



DRILL STEM TEST REPORT

Prepared For: Prater Oil & Gas Operation

1303 N. Main Pratt, KS 67124

ATTN: Scott Alberg

Ottley #1-21

21-10s-31w Thomas,KS

 Start Date:
 2012.08.14 @ 15:35:14

 End Date:
 2012.08.14 @ 21:58:44

 Job Ticket #:
 48409
 DST #: 2

Trilobite Testing, Inc PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 2012.08.14

RILOBITE	DRILL STEM TES	T REP	ORT		
	Prater Oil & Gas Operation		21-10s	31w Thomas	s,KS
ESTING , INC.	1303 N. Main Pratt, KS 67124		Ottley		
				et: 48409	DST#: 2
	ATTN: Scott Alberg		Test Sta	rt: 2012.08.14 @	<u>w</u> 15:35:14
GENERAL INFORMATION:					
Formation:Pawnee-Myric StatiDeviated:NoWhipstock:Time Tool Opened:17:13:44Time Test Ended:21:58:44	on ft (KB)		Test Typ Tester: Unit No:	e: Convention Brandon Tu 60	al Bottom Hole (Reset) urley
Interval:4385.00 ft (KB) To444Total Depth:4463.00 ft (KB) (TVHole Diameter:7.88 inches Hole			Referen	ce Elevations: KB to GR/CF:	2979.00 ft (KB) 2969.00 ft (CF) 10.00 ft
Serial #: 8373InsidePress@RunDepth:40.68 psigStart Date:2012.08.14Start Time:15:35:19TEST COMMENT:IF: 1/4" blow builtIS: No return.FF: Weak blow builtFS: No return.FS: No return.	End Date: End Time: to 2 1/2" in 30 min.	2012.08.14 21:58:43	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.00 psig 2012.08.14 @ 17:12:14 @ 20:14:14
Pressure vs. Ti			PRES	SURE SUM	IARY
City of the set of the	BT ST ST ST ST ST ST ST ST ST S	Time (Min.) 0 2 27 76 77 111 181 182	Pressure (psig) Te (de 2224.70 19.25 11 23.76 12 1079.53 12 33.93 12 40.68 12 978.44 12	mp Annotat g F) 0.46 Initial Hyd 9.72 Open To 3.09 Shut-In(1) 3.32 End Shut- 3.13 Open To 4.03 Shut-In(2) 5.07 End Shut- 4.70 Final Hyd	ion ro-static Flow (1)) -In(1) Flow (2)) -In(2)
Recovery				Gas Rates	
Length (ft) Description 60.00 gocm 5%g 5%o 90%m	Volume (bbl) 0.84		(Choke (inches) Press	sure (psig) Gas Rate (Mcf/d)
* Recovery from multiple tests Trilobite Testing, Inc	Ref. No: 48409			nted: 2012.08.1	

	DRILL STEM TES	ST REP	ORT			
RILOBITE	Prater Oil & Gas Operation	21-10s-31w Thomas,KS				
ESTING , INC.	1303 N. Main		Ottley #1-	21		
	Pratt, KS 67124	Job Ticket: 48409 DST# :			#:2	
	ATTN: Scott Alberg		Test Start: 2	2012.08.14 (@ 15:35:14	
GENERAL INFORMATION:						
Formation:Pawnee-Myric StatiDeviated:NoWhipstock:Time Tool Opened:17:13:44Time Test Ended:21:58:44	on ft (KB)		Test Type: Tester: Unit No:	Conventior Brandon To 60		Hole (Reset)
Interval:4385.00 ft (KB) To44Total Depth:4463.00 ft (KB) (TvHole Diameter:7.88 inches Hole			Reference E KB	Elevations: 8 to GR/CF:	2969.0	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 8356OutsidePress@RunDepth:psigStart Date:2012.08.14Start Time:15:35:54	@ 4386.00 ft (KB) End Date: End Time:	2012.08.14 21:59:18	Capacity: Last Calib.: Time On Btm: Time Off Btm:		8000.0 2012.08.1)0 psig 4
TEST COMMENT: IF: 1/4" blow built IS: No return. FF: Weak blow b FS: No return.	: to 2 1/2" in 30 min. uilt to 1" in 45 min.					
Pressure vs. Ti asso Pressure	ime 2368 Temperature			IRE SUM		
220 4 4 4 4 4 4 4 4 4 4 4 4 4	SPM	Time (Min.)	Pressure Temp (psig) (deg F	Annotat	lion	
Recovery			G	as Rates		
Length (ft) Description	Volume (bbl)		Choke	(inches) Pres	sure (psig)	Gas Rate (Mcf/d)
60.00 gocm 5%g 5%o 90%m	0.84					
* Recovery from multiple tests						

A Dr. T			DRI	LL STE	MTEST	REPOR	RT	TOOL DIAGRA
	RILOE			Dil & Gas Ope	ration		21-10s-31w Thomas	s,KS
	 EST	TING , INC	1303 N				Ottley #1-21	
			Pratt, K	S 67124			Job Ticket: 48409	DST#:2
			ATTN:	Scott Alberg			Test Start: 2012.08.14 @	2 15:35:14
Tool Informatio	on		ļ					
Drill Pipe:	Length:	4362.00 ft	Diameter:	3.80 in	ches Volume:	61.19 bbl	Tool Weight:	20000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bbl	Weight set on Packer	: 25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 in	ches Volume:	0.00 bbl	Weight to Pull Loose:	75000.00 lb
	-	5 00 fr		-	Total Volume:	61.19 bbl	Tool Chased	0.00 ft
Drill Pipe Above I		5.00 ft					String Weight: Initial	70000.00 lb
Depth to Top Pac		4385.00 ft					Final	70000.00 lb
Depth to Bottom Interval betw een		ft 78.00 ft						
Tool Length:	I Fackers.	106.00 ft						
Number of Packe	are.	2	Diameter:	6.75 in	ches			
Tool Comments:								
Tool Comments:								
	on	Le	ngth (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Tool Descripti	on	Le	ngth (ft) 1.00	Serial No.	Position	Depth (ft) A 4358.00	Accum. Lengths	
Tool Descripti	on	Le		Serial No.	Position		Accum. Lengths	
Tool Descripti Stubb Shut In Tool	on	Le	1.00	Serial No.	Position	4358.00	Accum. Lengths	
Tool Descripti Stubb Shut In Tool Hydraulic tool	on	Le	1.00 5.00	Serial No.	Position	4358.00 4363.00	Accum. Lengths	
Tool Descripti Stubb Shut In Tool Hydraulic tool Jars	on	Le	1.00 5.00 5.00	Serial No.	Position	4358.00 4363.00 4368.00	Accum. Lengths	
Tool Descripti Stubb Shut In Tool Hydraulic tool Jars Safety Joint	on	Le	1.00 5.00 5.00 5.00	Serial No.	Position	4358.00 4363.00 4368.00 4373.00	Accum. Lengths	Bottom Of Top Packe
Tool Comments: Tool Descripti Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on	Le	1.00 5.00 5.00 5.00 3.00	Serial No.	Position	4358.00 4363.00 4368.00 4373.00 4376.00		Bottom Of Top Packe
Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer	on	Le	1.00 5.00 5.00 5.00 3.00 5.00	Serial No.	Position	4358.00 4363.00 4368.00 4373.00 4376.00 4381.00		Bottom Of Top Packe
Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb	on	Le	1.00 5.00 5.00 5.00 3.00 5.00 4.00	Serial No.	Position	4358.00 4363.00 4368.00 4373.00 4376.00 4381.00 4385.00		Bottom Of Top Packe
Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder	on	Le	1.00 5.00 5.00 5.00 3.00 5.00 4.00 1.00			4358.00 4363.00 4368.00 4373.00 4376.00 4381.00 4385.00 4386.00		Bottom Of Top Packe
Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Stubb Recorder Recorder	on	Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00	8373	Inside	4358.00 4363.00 4368.00 4373.00 4376.00 4381.00 4385.00 4386.00 4386.00		Bottom Of Top Packe
Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Perforations		Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 8.00	8373	Inside	4358.00 4363.00 4368.00 4373.00 4376.00 4381.00 4385.00 4386.00 4386.00 4386.00 4394.00		Bottom Of Top Packe
Tool Description Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer Packer Packer Stubb Recorder Recorder Recorder Perforations Change Over Su		Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 8.00 1.00	8373	Inside	4358.00 4363.00 4368.00 4373.00 4376.00 4381.00 4385.00 4386.00 4386.00 4386.00 4386.00 4394.00 4395.00		Bottom Of Top Packe
Tool Descripti Stubb Shut In Tool Hydraulic tool Jars Safety Joint Packer	lb	Le	1.00 5.00 5.00 3.00 5.00 4.00 1.00 0.00 8.00	8373	Inside	4358.00 4363.00 4368.00 4373.00 4376.00 4381.00 4385.00 4386.00 4386.00 4386.00 4394.00		Bottom Of Top Packe

		DRILL STEM TEST REPORT				FLUID SUMMARY		
		Prater Oil & Gas Operation			21-10s-31w Thomas,KS			
ESTING , INC.		1303 N. Main Pratt, KS 67124 ATTN: Scott Alberg			Ottley #1-21 Job Ticket: 48409 DST#:2 Test Start: 2012.08.14 @ 15:35:14			
Mud and Cushion Infor	mation							
Mud Type:Gel ChemMud Weight:9.00 lb/Viscosity:52.00 seWater Loss:8.79 in³Resistivity:0.00 ohSalinity:2500.00 ppFilter Cake:1.00 inc	r.m m.m		Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:		ft bbl psig	Oil API: Water Salinity:		0 deg API 0 ppm
Recovery Information			_					
Г			Recovery Table			Г		
	Length ft		Description		Volume bbl			
	6 Length:	0.00 60.0	gocm 5%g 5%o 90%m 00 ft Total Volume:	0.842 bbl	0.842	2		
	oratory Name:		Laboratory Location:					

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70

75

80

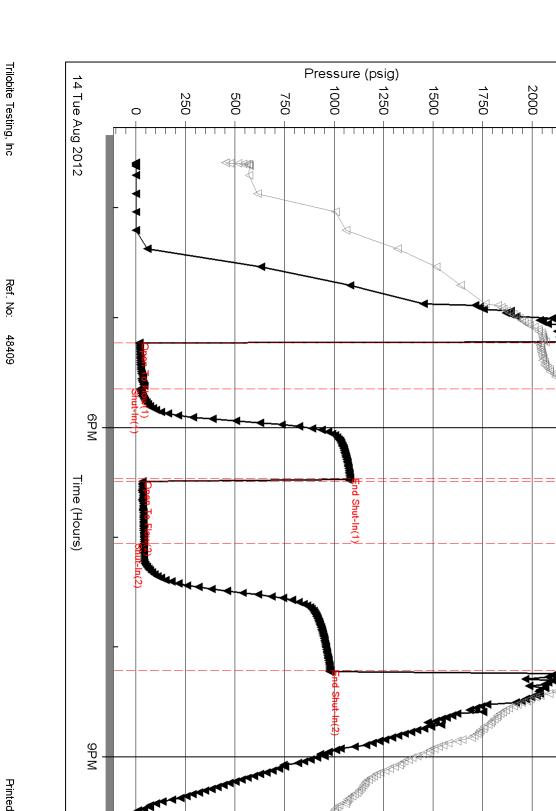
<u></u>

Temperature (deg F)

110

115

Ref. No: 48409



DST Test Number: 2

Serial #: 8373 Prater Oil & Gas Operation

Ottley #1-21

Pressure vs. Time

____ 8373 Temperature

Final Hydro-stati

125

120

Inside

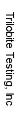
2250

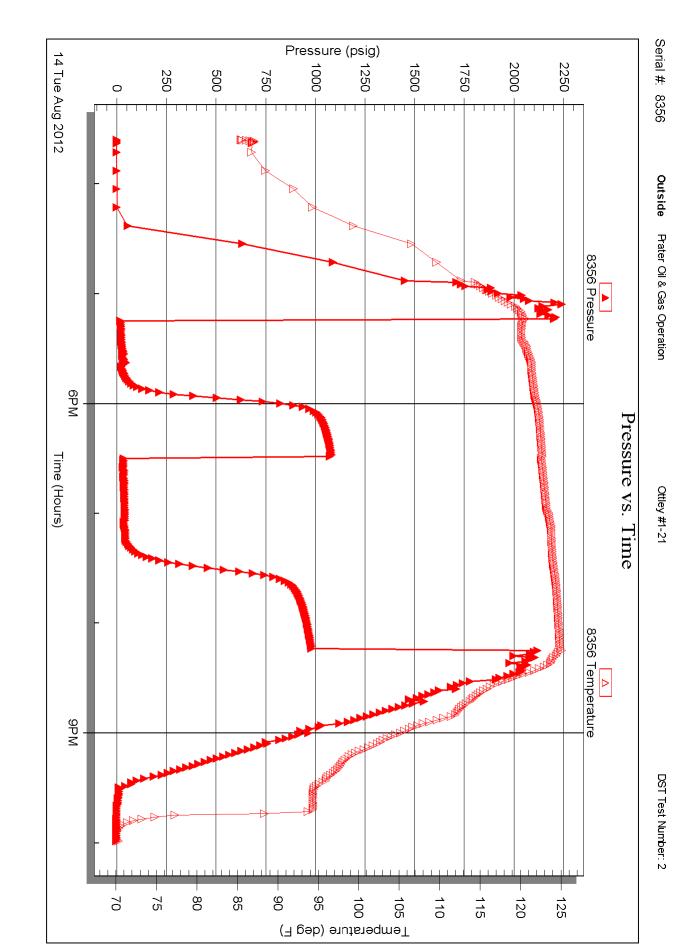
a373 Pressure

Initial Hydro-static

Printed: 2012.08.16 @ 16:25:19

Ref. No: 48409





	10	Test Ticket				
	ays, Kansas 67601	NO. <u>(</u>	8 408			
Anchor Length ///. Top Packer Depth 4//3 Bottom Packer Depth 4//9 Total Depth 4/2 Blow Description IF: 1/4 JS: No Netw	$\begin{array}{c} 3 cpcrations \\ \hline Prations \\ \hline Prati$	vation <u>2979</u> <u>67124</u> <u>Maverien</u> <u>Thomas</u> <u>crick#108</u> <u>ppm System</u> <u>30 min</u> ,				
Rec ID Feet of MUO Rec 6 Z Feet of Image: Comparison of the comparison of	9 9 9 9	6gas %oil 6gas %oil 6gas %oil 6gas %oil 6gas %oil	%water 100%mud 5 %water 95 %mud %water %mud %water %mud %water %mud %water %mud Chlorides ppm			
(A) Initial Hydrostatic 2/3/ (B) First Initial Flow 20 (C) First Final Flow 4/4/ (D) Initial Shut-In 1184/ (E) Second Initial Flow 4/9 (F) Second Final Flow 7/3 (G) Final Shut-In 1169 (H) Final Hydrostatic 1931 Initial Open 30 Initial Shut-In 4/5 Final Flow 4/5 Final Flow 4/5 Final Flow 4/5 Final Shut-In 4/5	Test 1250 Jars 250 Safety Joint 75 Circ Sub 1110 Hourly Standby 1 Hourly Standby 1 Sampler 1 Straddle 1 Shale Packer 1 Extra Packer 1 Day Standby 1 Accessibility 1751.70	T-On Log T-Starter T-Open_ T-Pulled T-Out Comment 76.70 Ruin Ruin Sub Total	cation 8:00 d 9:16 11:46 14:46 16:30 nts ned Shale Packer ned Packer a Copies			
15 MAn		entative				

4/10	RILOBITE ESTING IN P.O. Box 1733 • Ha			Test 1 NO. <u>48</u>		
Address	Ottley Ater oild EA Scott Alber		Test No		2 11-1-	-
			Co. Thom			
Bottom Packer Depth Total Depth	78 438 438	Drill Pipe Run Drill Collars Ru Wt. Pipe Run Chlorides	2500 ppm	Mud Vis WL System LCM	57. 8,8	
F.	IS! No retur Fliwerk blow S! No return Feet of 90 cm	n, bailt to 1			%water	>⊘ %mud
Rec			%gas %gas	%oil	%water	%mud %mud
Rec			%gas	%oil	%water	%mud
	Feet of		%gas	%oil	%water	%mud
Rec	Feet of		%gas	%oil	%water	%mud
Rec Total Initial Hydrostatic (A) Initial Hydrostatic (B) First Initial Flow (B) First Initial Flow (C) First Final Flow (C) First Final Flow (C) First Final Flow (D) Initial Shut-In (C) First Final Flow (E) Second Initial Flow (G) Final Shut-In (H) Final Hydrostatic (C) Final Flow Initial Open 30 Initial Shut-In 45 Final Flow 45 Final Shut-In 60	2224 19 23 1079 33 40 978 2116	 Test 1250 Jars 250 Jars 250 Safety Joint Circ Sub Circ Sub Hourly Standb Hourly Standb Mileage Sampler Straddle Shale Packer Extra Packer Extra Recorde Day Standby Accessibility 	75 N/C	T-On Locati T-Started T-Open T-Pulled T-Out Comments Comments Ruined Ruined Ruined Extra C Sub Total Total192	on <u>15:2</u> <u>15:3</u> <u>17:13</u> <u>20:13</u> <u>22:0</u> Shale Packer_ Packer_ opies_ 0	5
Approved By	1m A	HA	Our Representative	02	-27	

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.