

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1047105

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 Teast / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
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 Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: feet depth to:
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 SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls 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 West
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
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		Log	Formatior	n (Top), Depth and	d Datum Top	Sample Datum
Samples Sent to Geolog	ical Survey	Yes	No						
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:									
			CASING	RECORD	New	Used			
		Report a		conductor, surface, i		-	on, etc.		
Purpose of String	Size Hole Drilled	Size C Set (In		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	I RECOF	RD - Bridge P Each Interval F	lugs Set/Typ Perforated	e	,	Depth		
TUBING RECORD:	Siz	:e:	Set At:		Packe	r At:	Liner R	un:	No	
Date of First, Resumed F	Producti	on, SWD or ENHF	₹.	Producing N	1ethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
				1						
DISPOSITIC	GAS:			METHOD	OF COMPLE	TION:		PRODUCTION IN	FERVAL:	
Vented Sold Used on Lease				Open Hole	Perf.	Uually (Submit)	Comp. ACO-5)	Commingled (Submit ACO-4)		
(If vented, Sub	mit ACO	-18.)		Other (Specify)						



December 09, 2010

Cassie Parks FIML Natural Resources, LLC 410 17TH ST STE 900 DENVER, CO 80202-4420

Re: ACO1

API 15-171-20764-00-00 Pfenninger 1C-33-1831 NE/4 Sec.33-18S-31W Scott County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Cassie Parks

ALLIED CEMENTING CO. LLC CEMENTING CO. LLC PO BOX 31 Russell, KS 67665 Fax: (785) 483-3887 Fax: (785) 483-3887 Fax: (785) 483-5566 Image for the seconces LLC FIML Natural Resources LLC denver, CO 80202	Ald 30 2010 Invoice Date: Auge: Page: Page: 1 Pederal Tax I.D.#: 20-5975	Aug 23, 2010 - / 83/
Gustomer IP FIML Job Lapation KS1-01	Sęrvice-B Aug 23, 2	ays Pue Date 9/22/10
Qiantity Item 240.00 MAT Class 5.00 MAT Class 8.00 MAT Class 55.00 SER Har 55.00 SER Pur 3.00 EQP 8.5 1.00 EQP 8.5 1.00 <td>Class A Common Description Unit Price Case A Common 15.45 Cell 2.008 Choide 55.30 Handling 2.40 Mileage 253 sx @ 10 per sk pe mi 2.40 Nufface 35.00 Surface 3.00 Site Plug 3.00 Site Plug 3.00 Site Rup 2.40 Site Rup 2.60 Site Rup 3.00 Site Rup 3.00</td> <td>Amount 3,708.00 104.00 465.60 607.20 1,391.50 1,018.00 53.00 147.00 53.00 147.00 53.00 147.00 258.00 168.00 158.00 168.00 168.00 168.00 168.00 168.00 168.00 168.00 168.00 168.00 268.00 168.00 268.00 168.00 268.00 168.00 268.00 168.00 268.00 168.00 268.00 268.00 168.00 268.00 268.00 168.00 268.00 268.00 268.00 167.20 177.20</td>	Class A Common Description Unit Price Case A Common 15.45 Cell 2.008 Choide 55.30 Handling 2.40 Mileage 253 sx @ 10 per sk pe mi 2.40 Nufface 35.00 Surface 3.00 Site Plug 3.00 Site Plug 3.00 Site Rup 2.40 Site Rup 2.60 Site Rup 3.00 Site Rup 3.00	Amount 3,708.00 104.00 465.60 607.20 1,391.50 1,018.00 53.00 147.00 53.00 147.00 53.00 147.00 258.00 168.00 158.00 168.00 168.00 168.00 168.00 168.00 168.00 168.00 168.00 168.00 268.00 168.00 268.00 168.00 268.00 168.00 268.00 168.00 268.00 168.00 268.00 268.00 168.00 268.00 268.00 168.00 268.00 268.00 268.00 167.20 177.20



ALLIED CEMENTING CO	. , LLC. 038982
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CHARGE TO: TATE ZIP	TOTAL <u>الرامع 20</u>
To Allied Cementing Co., 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 $\int e^{-\sqrt{2} - \sqrt{2}} e^{-\sqrt{2}}$ DISCOUNT DISCOUNT SIGNATURE $\int e^{-\sqrt{2} - \sqrt{2}} e^{-\sqrt{2}} e^{-\sqrt{2}}$	45 0 49 53 40 5400 0 49 53 40 5400 0 49 14700 TOTAL 616 0 IF PAID IN 30 DAYS

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Payment Terms	Net 30 Days	Service Date	Sep 1, 2010	ນັ <u>ດ</u> ໃ Phice ເ	20.80	18.60	0.89	2.50	1.27	2.40	35.40	2,185.00	7.00	349.00	418.00	2,832.00	35.00	161.00	29.00					0	2710-110	A Jun V. Bun V	D 10023
Well Name# or Gustomer Pig.	Pfenninger1C#33-1831	Camp Location	Oakley	Description		Add Class A Gilconito		Flo Seal	WFR-2	Handling	Mileage 354 sx @.10 per sk per mi	2-Stage - Bottom	Pump Truck Mileage	5.5 Sure Seal Float Shoe	5.5 Sure Seal Float Collar	5.5 D V Tool	5.5 Centralizer	5.5 Basket	Lock Ring	Subtotal	Sales Tax	Total Invoice Amount	Payment/Credit Applied	<u>Tory</u>			
Gristoner i D	FIML	lop socation	KS1-02	Quantity 1800			MAT	MAT	MAT	SER	SER	SER	SER	EQP	EQP	EQP	EQP	EQP	1.00 EQP	ALL PRICES ARE NET PAYABLE	30 DAYS FOLLOWING DATE OF	INVOICE. 11/2% CHARGED THEPEALETED IN ACCOUNT IS	CURRENT, TAKE DISCOUNT OF	31 21 66		Sep 26, 2090	



DECETVEN

PO BOX 31 Russell, KS 67665

CEMENTING CO., LLC

LIED

SEP 07 2010

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Federal Tax I.D.#: 20-5975804

(785) 483-3887 (785) 483-5566 Bill To:

Voice: Fax:

FIML Natural Resources LLC 410 I7th St., #900 Denver, CO 80202

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ALLIED CEMENTING CO., LLC. 038993 Federal Tax LD.# 20-5975804
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PRINTED NAME 9 and Discount IF PAID IN 30 DAYS SIGNATURE 2 and 2 a

FIML Natural Resources LLC 410 17th St., #900 Denver, CO 80202	·.	Federal lax I.D.#: 20-5975804	
Gustomer 19	Well Name# of Gustomer P.G.	Payment Lerms	Suit
FIML	Pfenninger1C#33-1831	Net 30 Days	
Job Location	Gamp Location Oaklev	Service Date	Bue Pate
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	beschighon	Unit Price	Amount
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	Gilsonite	0.89	1,869.00
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	2-Stage - Top	1,185.00	1,185.00
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	Subtotal		13,128.00
30 DAYS FOLLOWING DATE OF	YABLE Sales Tax		586.37
INVOICE. 11/2% CHARGE	ED Total Invoice Amount		13,714.37
CURRENT TAKE DISCOUNT OF	<u> </u>		
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ONLY IF PAID ON OR BEFORE			11,088,77
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rf 124306 Sep 1, 2010 INVOID Invoice Number Invoice Date: S Page: DECETVell

PO BOX 31 Russell, KS 67665

ENTING CO.

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(785) 483-3887 (785) 483-5566 Voice: Fax:

Bill To:

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EMENTING CO., LLC. 038994	SERVICE POINT:	CALLED OUT ON LOCATION JOB START JOB FINISH (11, 300 W 200 12:00 FINISH COUNTY E TAOS ROL SCONTY STATE	OWNER CEMENT CEMENT CEMENT AMOUNT ORDERED L1 20 L1	Gilsenite 2100* 0 189 1869 0 Closiel 105 0 259 262 30 HANDLING 499 0 240 1148 0 MILEAGE 1104324mile 2722 50	Protection RM TOTAL LIGUS - TOTAL LIGUS - TOTAL LIGUS - TOTAL LIGUS - DEPTH OF JOB - DEPTH OF JO	PLUG & FLOAT EQUIPMENT	Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Total CHARGES Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (If any) Image: Sales Tax (Image: Sales Tax (Imag
ALLIED CEMEN	SAS 67665	Q-I-10SEC.TWP.RANGECALLDATE331831CALLPT + Nwites the state33-19311831LEASEWELL#1-CLOCATION 5c-44CitOLD OK NEW Activele one)3''25''224	CONTRACTOR M	PUMPTRUCK CEMENTER Lezad # 431 HELPER Land BULKTRUCK # 300000 BULKTRUCK # DRIVER BANDON BULKTRUCK # DRIVER	Whit acets coment MH, Minisort Min 2 Sosts coment . Lumhoum P 2 Lines . Drop plus delisplare to B 80041554 close doel @ 1600# 25 BBLS Dlus clour @ 11:450 25 BBLS Dlus clour @ 11:450	CHARGE TO: FIML STREETSTATEZIP	To Allied Cementing Co., 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 Countractor

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DRILL STEM TEST REPORT

Prepared For: FIML Natural Resources LLC

410 17th Street Suite 900 Denver, CO 80202-4420

evongeuM mit : NTTA

33-18-31 Scott KS

Pfenninger 1C 33-1831

۱	:# TSQ	40201	Job Ticket #:
	74:84:81 @ 1	72.80.0102	End Date:
	00:83:01 @	72.80.0102	Start Date:



Ph: 785-625-4778 fax: 785-625-5620 PO Box 1733 Hays, KS 67601

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2010.08.27

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010.08.27 Last Callb.: 2010.08.27			ed bra	72.80.0102	Start Date:
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Reference Bevations: 2939.00 ft (CF) 2939.00 ft (CF) KB to GR/CF: 11.00 ft			(a	71) (A) (K) (K) (K) VT) (Y) (1 (KB) A) (K) (K) (KB) (K) (K) (K) (K) (K) (K) (K) (K) (K) (K) (K) (K) (K) (K) (K) (K)	interval: Total Depth: Hole Diameter:
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Tester: Chuck Smith					neqO looT emiT
Test Type: Conventional Bottom Hole		(KB))]]	No Mipstock:	Deviated:
				LKC 'G'	Formation:
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Test Start: 2010.05.87 @ 10:88:00		Ausgrove	Imil :MTTA		
Job Ticket: 40201			Denver, CO		
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Pfenninger 1C 33-1831	(Resources LLC	FIML Natural		(TET)
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Trilobite Testing, Inc

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Suite 900 Job Ticket: 40201 DST#:1	
VG ' INC 410 12th Street 33-18-31 Scott KS	
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Change Over Sub

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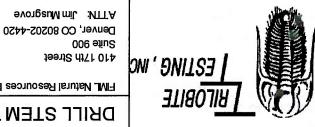
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DRILL STEM TEST REPORT

FIML Natural Resources LLC

33-18-31 Scott KS

Job Ticket: 40201 r:#t20

Pfenninger 1C 33-1831

Test Start: 2010.08.27 @ 10:58:00

YAAMMUS DIUJA

Mud and Cushion Information

				mqq 00.0011	Salinity:
		fisd	Gas Cushion Pressure:	m.mdo 00.0	:vtiviteieeA
			Gas Cushion Type:	²ni 88.7	Water Loss:
		Idd	Cushion Volume:	48.00 sec/qt	Viscosity:
mqq 0000£	Water Salinity:	11	Cushion Length:	lsg\dl 00.9	:JrteieW but
PA geb 0	:IAA IIO		Cushion Type:	wəy	Mud Type: Gel C

Recovery Information

Filter Cake:

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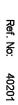
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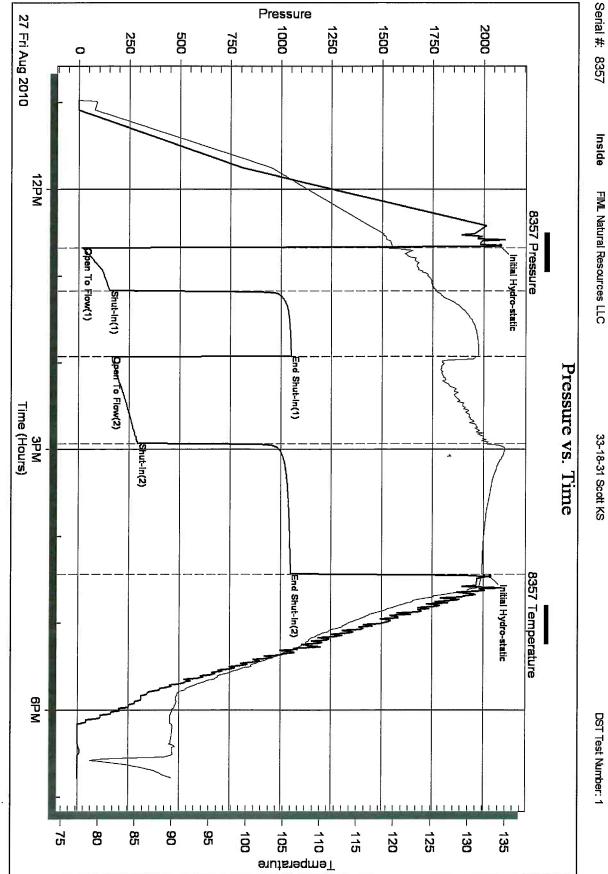
Recovery Comments: Laboratory Name: 0 :selqms2 biul7 muN

Laboratory Location:

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2010.08.28

f ageq 25:30:11 @ 80.00.0102 :baining



DRILL STEM TEST REPORT

Prepared For: FIML Natural Resources LLC

Denver, CO 80202-4420 **006** *stin*S 410 17th Street

evorgeuM mit :VITA

33-18-31 Scott KS

Pfenninger 1C 33-1831

D21# 5 Job Ticket #: 40202 2010.08:28 @ 09:58:00 End Date: Start Date: 2010.08.28 @ 03:22:00

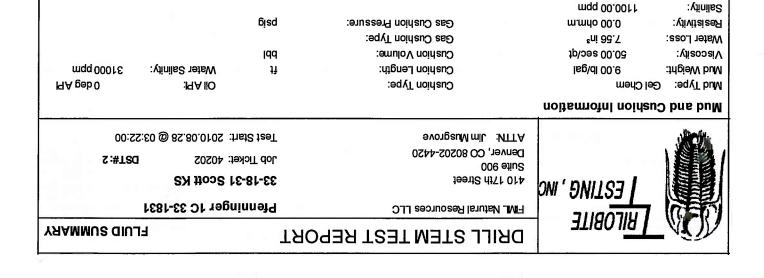
ph: 785-625-4778 fax: 785-625-5620 PO Box 1733 Hays, KS 67601 Trilobite Testing, Inc

S 9959 2:00:11 @ 80.00.0103 :beining	Ref. No: 40202	Trilobite Testing, Inc
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	MAQ (aun) Imm Time (Hours)	DLCC Dry 1#5 82
		Defect at 194
168 2065.18 135.96 Final Hydro-static		
167 935.46 136.20 End Shut-In(2)		
101 229.69 136.37 Shut-In(2)		
62 923.44 135.10 End Shut-In(1) 63 173.41 134.22 Open To Flow (2)		
32 168.16 135.01 Shut-In(1)		
2 26.35 118.43 Open To Flow (1)		
0 2102.08 118.81 Initial Hydro-static		
Time Pressure Temp Annotation (Min.) (pig) (deg F)	3441-42341 pmg 4	
	Frestue vs. Lithe	ensisi() 1970
	Ao return.	
	o return. 6.O.B. @ 20 min.	
		TEST COMMENT: F: B.
05:50:50 @ 82.80.01 0.05 muta nO emiT 65:75:90 05:54:30 @ 82.80.010 cmta muta miT	:emiT br∃ c0:S2:05	Start Time:
2010.08.28 Last Calib.: 2010.08.28		Start Date: 2
Capacity: 8000.00 psig	Bisq 69.67 (KB) (83.00 ft (KB)	
	əbist	Serial #: 6751 Ou
KB to GR/CF: 11.00 ft	inchesHole Condition: Good	Hole Diameter: 7.88
(CF) # C0.2339.00	ti (KB) (TVD)	
Reference Eevations: 2950.00 ft (KB)	(B) To 4206.00 ft (KB) (TVD)	l) ft 00. f8f4 :lsv19fnl
CE :oN iiuU		Time Test Ended: 09:58:00
Tester: Chuck Smith		00:80:30 :beneqO looT emiT
Test Type: Conventional Bottom Hole	Vhipstock: ft (KB)	Formation: LKC 'I' Deviated: No V
	·NC	GENERAL INFORMATIO
Test Start: 2010.08.28 @ 03:22:00	ATTN: Jim Musgrove	
Job Ticket: 40202 DST#: 2	Denver, CO 80202-4420	
33-18-34 Scott KS	Suite 900	
	1991 C 11	
Pfenninger 1C 33-1831	HIME MATURAL RESOURCES LED	IBOTIN BITOBI
Т КЕРОЧТИ	ב <i>ב</i> מאורר Stew Les.	

			03 / 3 / 3 / /			00 0		-	
		stipna. Lengths	Depth (ft)	Position	Serial No.	(ֈֈ) պքն	Гег	uc	ool Descriptio
									:stnemmoO lo
				səyo	ui 67.8	Diameter:	2	LS:	mber of Packer
							11 02.SB		:dtbnə.l k
							11 00.8S	Packers:	nəə wfəd lavra
							11	:Jacker:	I motto Bottom
	di 00.00009	leni l					H 00.1814	Ker:	los9 qoT of dig
	di 00.00009	String Weight: Initial	100 1-7:00	.00000 4 0000			11.50 ft	(B:	i Pipe Above K
	11 00.0	Tool Chased	199 17:99	:emuloV listoT					
	91 00:00002		144 81.1	ches Volume:		Diameter:	11 00.04S	:utgnai	Collar:
		Weight set on Packer:	199 00.0	ches Volume:		Diameter:	11 00.0 11 00.0	:цібиал	:Pipe: W. Pipe:
	2500.00 lb	Tool Weight:	199 90°33	ches Volume:	ui 08 £	Diameter:	11 00.829£	:ңұбиәๅ	I Libe:
	×						i	u	ol Informatio
	03:22:00	Test Start: 2010.08.28 @		ə	Jim Mu sgrov	:NTTA			
	Z:#1SO	Job Ticket: 40202		450	CO 80505-4	Denver,			
	C-#190					06 əfin2			
		33-18-31 Scoff KS			h Street	121 014	ONI ' ĐNI	ISE I	
	131	Pfenninger 1C 33-18		Ces LLC	itural Resour			_	7 流手
MARDAIC	TOOL	Τ۶	REPOF	TS3T M	TL STE	וואם	ועב	80718	

					62.50	Total Tool Length:	
Bottom Packers & Anchor	25.00	4206.00			3.00		esouling
		4203.00			20.00		Perforations
		4183.00	sbiztuO	1929	00.0		Recorder
		4183.00	əbiznl	2968	00.0		Recorder
		4183.00			00.1		Perforations
		4182.00			00.1		Stubb
		00.1814			4.00		Packer
Bottom Of Top Packer	25.50	00.7714			6.00		Packer
		4172.00			2.50		Safety Joint
*		09.6914			00' 9 -		Jars
		09.4914			00. 8		Hydraulic tool
		09.6314			£.00		looT ni junis
		09.4314			00.F	qr	Change Over Si
	Accum. Lengths	Depth (ft)	Position	Serial No.	(អ្ន) ឬរុទិប៖	ion Lo	Tool Descript

Finted: 2010.09.08 @ 11:06:34 Page 3



Recovery Information

Filter Cake:

and the second s

Sids T	Recovery

p10.0	liO nsəl	00.1
274.0	20CMM 1%0 12%W 84%M	34.00
623.3	VV%56 M%5 VV	950.00
idd Idd	Description	μ μβuəη

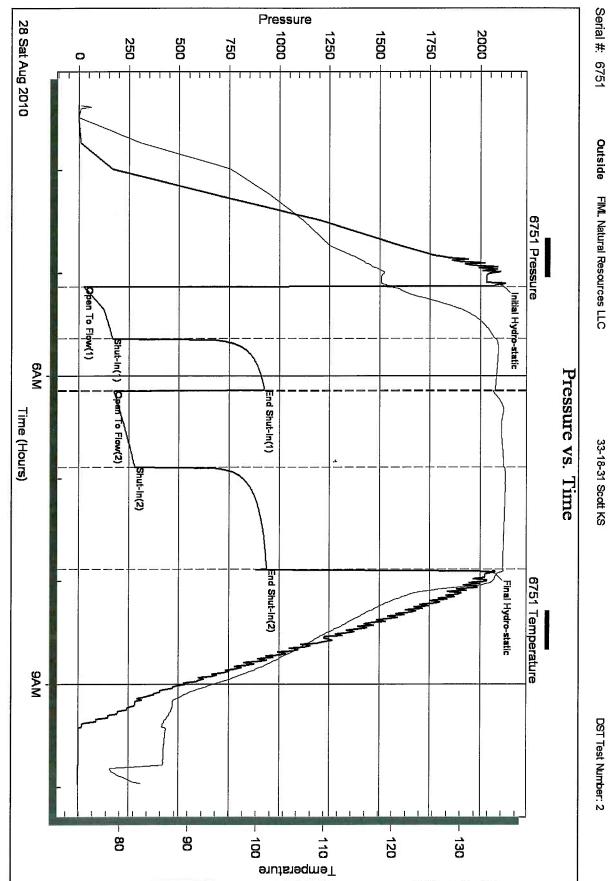
:emuloV lstoT 1100.288 Total Length: 6.020 bbl

Laboratory Name: 0 :selqms2 biul7 muN

Laboratory Location: :# Isine2 0 Somoa sed mun

Recovery Comments:









DRILL STEM TEST REPORT

Prepared For: FIML Natural Resources LLC

410 17th Street Suite 900 Denver, CO 80202-4420

ATTN: Jim Musgrove

33-18-31 Scott KS

Pfenninger 1C 33-1831

 Job Ticket #:
 40203
 DST #:
 3

Ph: 785-625-4778 fax: 785-625-5620 PO Box 1733 Hays, KS 67601

2010.08.29

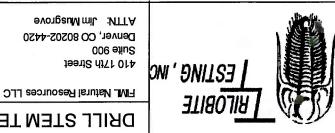
2 90s9 88:80:11 @ 80.00.0102 :beinin9	Trilobite Testing, Inc 20203
	30.00 SOCM 1%O 99%M 0.15
	120.00 OSM 100%M 0.59
	Fendati (ψ) Description Volume (bpl) 60.00 SOCMM 3%O 52%M Σ5%M 0.30
Choke (inches) Pressure (psig) Cas Rate (Motid)	Cesculation Advinue (pp) Recovery Volume (pb)
	HALO DATE AND DATE OF CONTRACT OF CONTRACT.
	2/ 1 07
71 2103.61 128.22 Final Hydro-static	
69 334.76 127.82 End Shut-In(2)	
63 65.13 122.53 Open To Flow (2) 08 114.95 127.70 Shut-In(2)	
63 633'56 153'01 Euq Shut-In(1)	
33 69.11 123.14 Shut-In(1)	8
0 2126.88 118.46 Initial Hydro-static 2 24.64 117.64 Open To Flow (1)	
(J bəp) (bisd)	(.nM) 25.7 (
	SCIT sublight 7028
YAAMMUS AAUSSAAA	Pressme vs. Time
	FSI: No return.
	ISI: No return. FF: 2 1/2" Blow.
48:40:30 @ 05.80.0102 .mta 11O ami⊺	
	Start Time: 01:27:35 End Time: 08:12:1
	Press@RunDepth: ۲۹.4.95 psig @ 42.11.00 ft (KB) Start Date: 2010.05.29 End Date: 2010.08.2
Capacity: \$600.000 psig	Serisi #: 8357 اnside Press@RunDoft (KB) (KB) (KB) (KB)
KB fo GB/CE: 11:00 ff	Total Depth: 4319.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole Condition: Good
Reference ⊟evations: 2950.00 ft (CF) 2939.00 ft (CF)	Interval: 4210.01 ft (KB) To 4319.00 ft (KB) (TVD)
	St:St:80 :bəbn∃ t≈9T əmiT
Tester: Chuck Smith	Time Tool Opened: 03:16:12
Test Type: Conventional Bottom Hole	Deviated: No Whipstock: ft (KB)
	Formation: LKC "J-L"
	GENERAL INFORMATION:
Test Start: 2010.08.29 @ 01:5730	ATTA: Jim Musgrove
10p Ticket: 40203 DST#:3	Deuxet' CO 80205-4420
33-18-31 Scott KS	
	ONI ' 5NILS3
Pfenninger 1C 33-1831	
ТЯОЧ	
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			00 1001						
			09.8614		-4	6.00			ars
			09.5914			6.00			tydraulic tool
			03.8814			00 [.] G			looT ni tudi
			05.5814			00.F		q	hange Over Sub
		cum. Lengths	Depth (ft) Ac	Position	Serial No.	(ֈֈ) կֈն	uəŋ	uc	ool Descriptic
									-00000000000000000000000000000000000000
				0011			-	.01	ool Comments:
				səy	oni 87.8	Diameter:		.5.	umber of Packe
							136.50 ft		ool Length:
							11 00.00 L		nterval between
	di 00.00028	lisni-1					1 <u>1</u>		I motto Bottom I
	91 00:00029						4210.00 ft		Septh to Top Pac
	11 00.0	Tool Chased	199 29 99	:emuloV listoT			13.50 ft	·8·	∮ əvodA əqi¶ Ilin(
	91 00:00002	Weight to Pull Loose:	144 81.1	:emuloV sent	oni 22.2	Diameter:	240.00 ft	:цұбиә-т	Till Collar:
	di 00.00022	Weight set on Packer:	199 00.0	:emuloV seda	oni 00.0	Diameter:	11 00.0	:цұбиәๅ	eavy Wt. Pipe:
	2600.00 lb	Tool Weight:	199 6 1 .22	:emuloV seda	oni 08.C	Diameter:	11 00.9 3 86	:цібиәๅ	:eqi9 Ilin
								uc	ool Informatic
		A							Inoth
	05:75:10	Test Start: 2010.08.29			Jim Musgrove				1. 1. 1.
	DST#: 3	Job Ticket: 40203		021	CO 80505-41	De atiu2			
		33-18-31 Scott KS			r Street		aut nu	LEON	
							DNI' ĐNI	123	
_	121	Pfenninger 1C 33-18		es LLC	tural Resourc	en jimiti		BOTIN	
MARDAID	TOOL	1	ГЯОЧЭЯ	N TEST	LI STEI	סצוו			LAN

					136.50	Total Tool LetoT
Bottom Packers & Anchor	00.001	4319.00			3.00	əsouling
		4316.00			00.r	Change Over Sub
		4312.00			93.00	eqia liinQ
		4222.00			00.f	Change Over Sub
		4221.00			10.00	Perforations
		4211.00	outside	1929	00.0	Recorder
		4211.00	əpisul	2968	00.0	Recorder
-		4211.00			00.f	qqniS
		4210.00			4.00	Packer
Bottom Of Top Packer	27.50	4206.00			5.00	Packer
		4201.00			2.50	Safety Joint
		09.8614		-	6.00	วุฐเร
		09.5614			6.00	Hydraulic tool
		4188.50			00.8	looT ni tunis

5 9059 73:30:11 @ 80.00.0102 :beining

2



Mud and Cushion Information

DRILL STEM TEST REPORT

Pfenninger 1C 33-1831

33-18-31 Scott KS

C21#:3 Job Ticket: 40203

05:72:10 @ 02.80.0102 :that2 teaT

mqq 0007S PIA geb 0

YAAMMUS GIUJ

Water Salinity: :IAA liO

Idd

Serial #:

fisd

IJ

2.00 inches mqq 00.00£1 m.mdo 00.0 €ni 49.7

tploes 00.13

160/dl 00.9

Recovery Information

Filter Cake:

:vtiviteieeA

Water Loss:

:http://www.seight:

Mud Type: Gel Chem

Viscosity:

:Viinile2

.2

Recovery Table

Gas Cushion Pressure:

Gas Cushion Type:

:emuloV noinauO

Cushion Length:

Cushion Type:

	1.033 PDI	:emuloV IstoT	11 00.	210	il Feuâțh:
841.0	1	W%66 O%L	SOCIM	30.00	
069'0		W%00	1 WSO	120.00	
962.0		M%27 W%82 O%E M	socw	00.08	
emuloV Idd		Description		цţ	џ Juə́⊓

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:somoa seo mun

Laboratory Location:

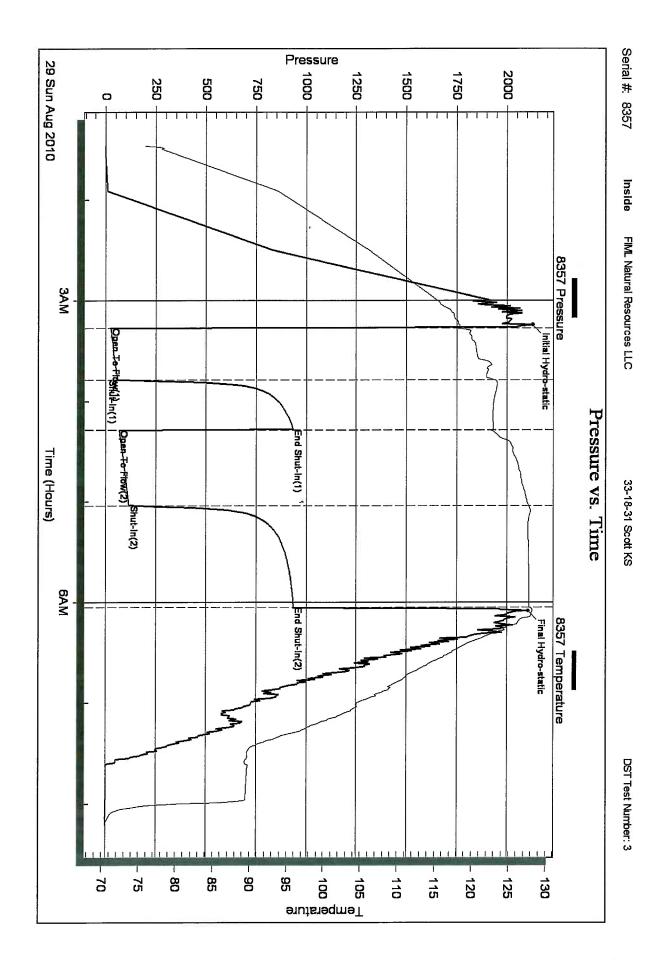
Recovery Comments:

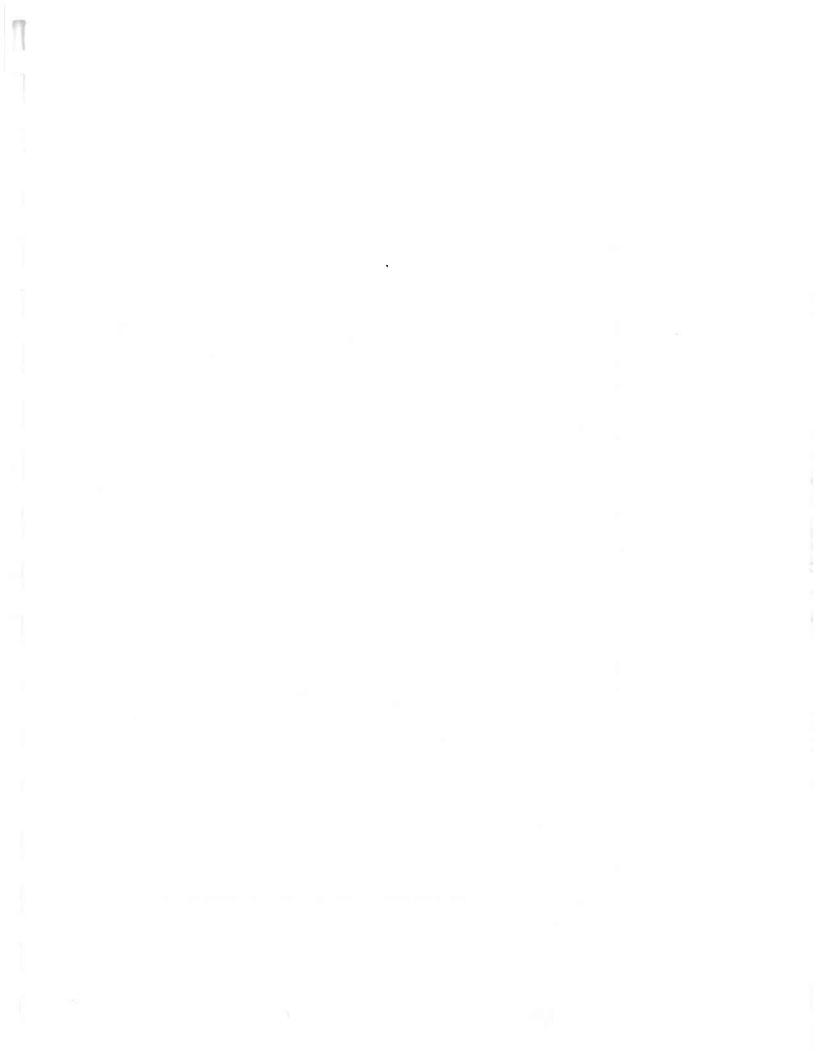
Total Length:

Laboratory Name: 0 :selqms2 biul7 muN

4 9gs9 82:30:11 @ 80.00.010S :betning









DRILL STEM TEST REPORT

Prepared For: FIML Natural Resources LLC

410 17th Street Suite 900 Denver, CO 80202-4420

evorgeuM mit : NTTA

33-18-31 Scott KS

Pfenninger 1C 33-1831

4	₩ LSO	40204	Job Ticket #:
	9:30 @ 00:51:54	2010.08	End Date:
	8.29 @ 20:38:00	2010.08	Start Date:

Ph: 785-625-4778 fax: 785-625-5620

2010.08.29

	457.00 DM 100%M 4.22
Choke (inches) Pressure (psig) Gas Rate (Mctid)	Length (ft) Description Volume (bbl)
Sates	Recovery
	Mar naki 0C Mrtit Mrtin Mrtin Mrti (cucht) anit Nice Mrti Ctos gua au
PRESSURE SUMMARY PRESSURE SUMMARY Time Pressure Temp Annotation (Min.) (psig) (deg F) 0 2113.52 118.85 Initial Hydro-static 2 1860.91 120.64 Open To How (1) 2 1860.91 120.64 Open To How (1) 2 1861.91 120.64 Open To Hydro-static 3 1862.8402 10 10 10 10 10 10 10 10 10 10 10 10 10	EST COMMENT: IF: Packet seat failed, reset fool, packet seat failed, r
capacity: 2010.00 العناقية: 2010.00 العناقية: 2010.00 المعافية: 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعا 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعافة: 2010.00 ا 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعافة: 2010.00 المعافة: 2010.00 ا	Serial #: 8357 Inside Pess@RunDepth: psig @ 4304.00 ft (KB) hart Date: 2010.08.29 End Date: 2 hart Time: 20:38:05 End Time:
Reference Elevations: 2950.00 ft (CF) 2939.00 ft (CF) KB to GR/CF: 11.00 ft	rterval: 4301.00 ft (KB) To 4400.00 ft (KB) (TVD) otal Depth: 4400.00 ft (KB) (TVD) lole Diameter: 7.88 inchesHole Condition: Good
Test Type: Conventional Bottom Hole Tester: Chuck Smith Unit No: 37	ormation: Marmaton leviated: No Whipstock: ft (KB) ime Test Ended: 20:51:54
	ENERAL INFORMATION:
00:85:02 @ S.80.0102 :1art Jz9T	evorgeuM mit. :MTTA
Job Ticket: 40204 DST#:4	Deuxet, CO 80202-4420
33-18-31 Scott KS	
Pfenninger 1C 33-1831	ESTING, INC ATURING Recources LLC
	<i>y</i> :

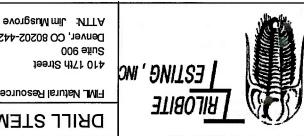
Trilobite Testing, Inc

2 9gs9 ES:70:11 @ 80.00.0102 :beinif9

MARDAN	100L	T	ЯОЧЭЯ	TS TEST	TL STE	סצוו			し、ビリン
	334	Pfenninger 1C 33-18		Ces LLC	tural Resou			BILOB	7 (清下
		33-18-31 Scoff KS			h Street	121 014	ONI ' ĐNI.	ISE I	
	⊅:#T&O	Job Ticket: 40204			00	06 əfiu&			
		@ 92.80.0102 :tart: 2010.08.29			Jim Musgro CO 80202-				
								u	ool Informatio
	2500.00 lb	Tool Weight:	1dd 18.82	:emuloV senor	i 08.E	Dismeter:	ff 00.0304	:ңұбиәт	:9qiA Ilin
		Weight set on Packer:	1dd 00.0	:emuloV senor		Diameter:	-		savy Wt. Pipe:
	qi 00.00049	:esool Ilud of the Bull Loose:	Idd 81.1	:emuloV senor	i 82.2	Diameter:	11 00.0 1 2	reudty:	rill Collar:
	11 00 00019	Tool Chased	199 66.73	:emuloV listoT			f) 02.91	:8:	∦ ∋vodA ∋qi¶ Ilin
	al 00.000 1 3 dl 00.00013	Isitini :trigieW gnint2 IsniFi					ft 00.1064		off to Top Pac
							11		Repth to Bottom P
							1J 00.66	Packers:	ierval between
				səyou	i 97.9	Diameter:	126.50 ft 2	. 5.	umpet of Packer ool Length:
				6200		. 10101118/0	7	.6	ool Comments:
	<u> </u>	stigns. Lengths	Depth (ft) A	Position	Serial No.	(ֈֈ) պյնլ	гөг	u	ool Descriptio
			09.4724			00.1		l.	nange Over Sub
			4279.50			00.8			looT ni tur
			4284 20	4		00.8			draulic tool
			4589.50			00.8			taiol viet
n Packer	oT 10 mottoB	27.50	4552'00			00.5 5.00			cker cker
			4301.00			4.00			cker
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					126.50	Total Tool Length:
Bottom Packers & Anchor	00.66	4400.00			3.00	əsouling
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		4334.00			00.1	Change Over Sub
		4333.00			29.00	Perforations
		4304.00	outside	1929	00.0	Recorder
		4304.00	əpisul	2928	00.0	Recorder
		4304.00			2.00	Perforations
		4302.00			00.r	dduj2
		00.1064			4.00	Packer
Bottom Of Top Packer	22'20	00.7624			6.00	Packer
		4292.00			2.50	Safety Joint
		4589.50	a		00.8	Jars
		4284.50			00. 2	Hydraulic tool
		4526 20			00.8	looT ni tuni2

3



DRILL STEM TEST REPORT

Pfenninger 1C 33-1831

<u> 6</u>isq

Idd

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33-18-31 Scott KS

Serial #:

7:#LSO Job Ticket: 40204

Test Start: 2010.08.29 @ 20:38:00

mqq 0 Water Salinity: PIA geb 0 :FIA IIO

FLUID SUMMARY

FIML Natural Resources LLC

Denver, CO 80202-4420 **006 effu**S 410 17th Street

Mud and Cushion Information

sentoni 00.	٢	Filter Cake:
mqq 00.	1200	Salinity:
m.mdo 00.	0	:viviteiseA
²ni 81.	2	Water Loss:
ip\oee 00.	7 4	Viscosity:
lsg\di 00.	6	Mud Weight:
	Gel Chem	Mud Type:

Recovery Information

Sidis T	Recovery
----------------	----------

4.224	W%001 WC	00'297
əmuloV Idd	Description	۲ęngth Length

Gas Cushion Pressure:

Gas Cushion Type:

:emuloV noinauO

:http://www.cength:

Cushion Type:

:emuloV listoT

Total Length: 1100.784

Recovery Comments:

0 :selqms2 biul7 muN

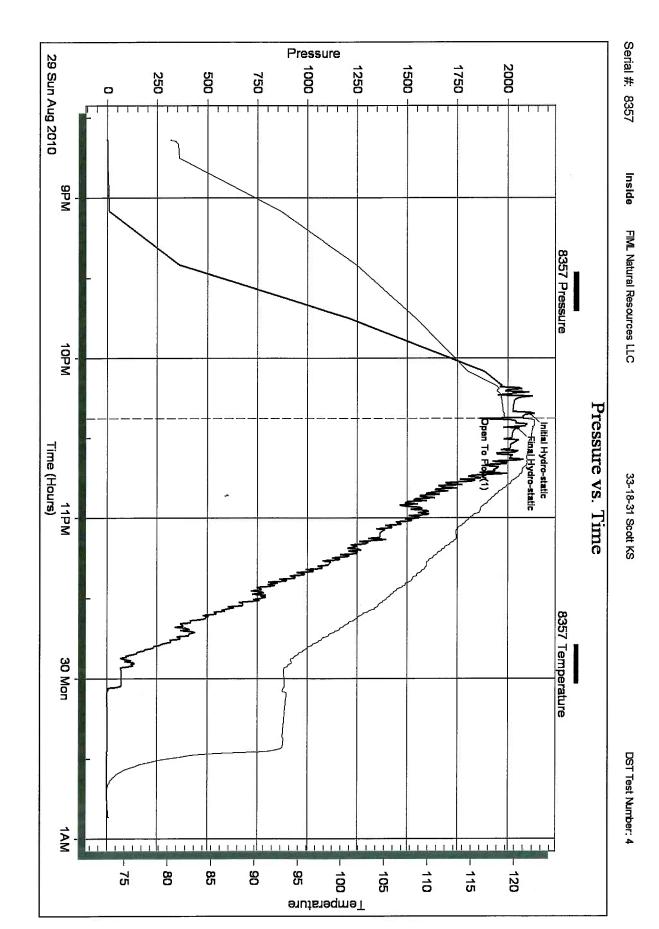
Laboratory Name:

Laboratory Location: 0 :sdmog seð muv

4.224 bbl

4 9059 45:70:11 @ 80.00.0102 :beining







2010.08.30

f age9 82:70:11 @ 80.00.0102 :baining



DRILL STEM TEST REPORT

FIML Natural Resources LLC Prepared For:

Denver, CO 80202-4420 006 atiu2 410 17th Street

evorgeuM mit :VITTA

33-18-31 Scott KS

Pfenninger 1C 33-1831

9 :#1SQ Job Ticket #: 40205 74:12:01 @ 05.80.0102 End Date: 2010.08.30 @ 01:03:00 Start Date:

ph: 785-625-4778 fax: 785-625-5620 PO Box 1733 Hays, KS 67601 Trilobite Testing, Inc

ISSUNG 7960 SS00 COMMENT IS DO SONG 0960 SS00 ISSUNG 1000 SS00 SS00 500 SS00 500 SS00 500 COMMENT IS DO SONG 0960 SS00 500 SS00 500 <th colspan="2" ss00<="" th=""><th></th><th>0 00 340 East Meak GIP 0 00</th></th>	<th></th> <th>0 00 340 East Meak GIP 0 00</th>			0 00 340 East Meak GIP 0 00
Imate Control Imate Control<				
Lughing The Neitrai Resources LLC Prenninger 10 33-1831 Manager 10 Text Neitrai Resources LLC Prenninger 10 33-1831 Manager 10 Text Neitrai Resources LLC Text Neitrai Resources LLC CENTRG , MC Text Neitrai Resources LLC Text Neitrai Resources LLC CENTRG , MC Text Neitrai Resources LLC Text Neitrai Resources LLC CENTRG , MC Text Neitrai Resources LLC Text Neitrai Resources LLC CENTRG , MC Text Neitrai Resources LLC Text Neitrai Resource Resources LLC CENTRG , MC Text Neitrai Resource Resources LLC Text Neitrai Resource Resources LLC CENTRG , MC Text Neitrai Resource Resources LLC Text Neitrai Resource Resources LLC CENTRG , MC Text Neitrai Resource Resources LLC Text Neitrai Resource Resources LLC CENTRG , MC Text Neitrai Resource Resources LLC Text Neitrai Resource Resources LLC Resource Resources LLC Text Neitrai Resource Resources LLC Text Neitrai Resource Resources LLC Resource Resources LLC Text Neitrai Resource Resources LLC Text Neitrai Resource Resources		620.00 GO 20%G 80%O 8.15		
Jest Start		180.00 GOCM 10%G 20%O 70%M 0.89		
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Preseive in the sources LLC Principatri C 33-1831 Filt Right of the sources LLC Principatri C 33-1831 Filt Right of the sources LLC Principatri C 33-1831 Filt Right of the sources LLC Principatri C 33-1831 Filt Right of the sources LLC Principatri C 33-1831 Filt Right of the sources LLC Principatri C 30-08.30 & 01-03-00 Filt Right of the sources LLC Principatri C 30-08.30 & 01-03-00 Filt Right of the sources LLC Principatri C 30-08.30 & 01-03-00 Filt Right of the sources LLC Filt Right of the sources LLC Filt Right of the sources LLC Filt Right of the sources C 30-00 for Right of the sources Right of the source	Gas Rates	Кесолецу		
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Pierce				
FINE Natural Resources LLC Pfenninger 1C 33-1831 FINE Natural Resources LLC Pfenninger 1C 33-1831 FINE Natural Resources LLC Pfenninger 1C 33-1831 FINE Natural Resources LLC Static S010.08.30 @ 01:03:00 FINE Natural Resources LLC Static S010.08.30 @ 01:03:00 Formation: Marmaton Formation: Marmaton Deviated: No. Whipstock: ft (KB) Formation: Marmaton Deviated: No. Whipstock: ft (KB) Formation: Marmaton Deviated: No. Whipstock: ft (KB) Time Test Ended: 10:21:47 Test Static: 2010.06.30 @ 01:01:01 Deviated: No. Whipstock: ft (KB) Fest Ended: 00:01:01:00:00 Interval: Assn.00 ft (KB) Fest Ended: 10:01:01:00:00 10:01:01:00:00 Time Test Ended: 10:02:63:30 Fest Ended: 10:01:00:00 10:01:00:00 10:01:00:00 Interval: Assn.00 ft (KB) Fest Ended: 2030.00 ft (KB) 10:01:00:00 10:01:00:00 Interval: Assn.00 ft (KB) Fest Ended: 10:01:00:00 10:00	12:23:20 @ 05:30.0102 :mt8 nO emiT 84:12:01	Start Date: 2010.08.30 End Date: 201 Start Time: 01:03:05 End Time: 1 TEST COMMENT: IF: B.O.B. @ 1 min.		
Pierusinger 1C Pieru	Capacity: 8000.00 psig			
Image: Constant Matural Resources LLC Pfenninger 1C 33-1831 Image: Constant FIM. Natural Resources LLC Pfenninger 1C 33-1831 Image: Constant ATTM: Jim Musgrove Job Ticket: 40205 Datwer, CO 80202-4420 CENERAL INFORMATION: Matural Resources LLC Job Ticket: 40205 Datwer, CO 80202-4420 Ceneation: Matural Resources LLC Job Ticket: 40205 Datwer, CO 80202-4420 Denver, CO 80202-4420 Job Ticket: 40205 Datwer, 600 Denver, CO 80202-4420 Job Ticket: 2010.08.30 @ 01:03:00 Dotom Hole Feat Type: Conventional Bottom Hole Denvertional Bottom Hole Deviated: Wo Whipstock: ft (KB) Test Type: Conventional Bottom Hole Time Tool Opened: 02:03:00 Test Type: Conventional Bottom Hole Test Type: Conventional Bottom Hole	2939.00 ft (CF)	Total Depth: 4400.00 ft (KB) (TVD)		
Image: Construction Figure 300 ESTING, INC FIM. Margrove Participation 33-18-31 Scott KS Denver, CO 80202-4420 Job Ticket: 40205	Tester: Chuck Smith	Formation: Marmaton Deviated: No Whipstock: ft (KB) Time Tool Opened: 02:53:30		
ESTING, INC Benver, CO 80202-4420 Benver, CO 8020 Benver, CO 80202-4420 Benver, CO 80202-4420 Benver, CO 8020		GENERAL INFORMATION:		
	Jop Lickef: 40502 D21#: 2 33-18-31 Coff K2	ESTING, INC Denver, CO 80202-4420 410 17th Street Suite 900 Pinte 1460181 No Pinte 1460181 No Pi		
	ТЯОЯТ			

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Ref. No: 40205

Trilobite Testing, Inc

00.00

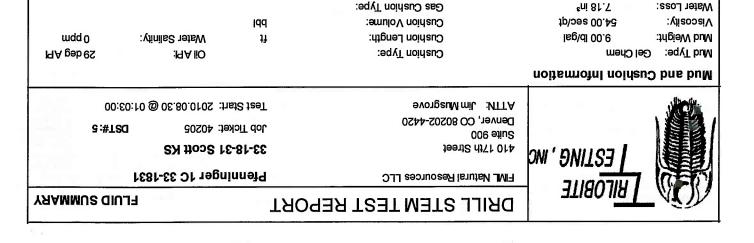
340 Feet Weak GIP

draulic tool		00.8			09 2724 50			
looT ni tu		00.8			4569.50			
ange Over Sub		00.1			4564.50			
ol Description	гел	(ֈֈ) կլնւ	Serial No.	Position	Depth (ft)	Accum. Lengths		······································
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mber of Packers:	z	Diameter:	ui 67.8	səyou				
:цібиәт і	11 03.041							
rval between Packers:	11 00.711 :							
oth to Bottom Packer:	11							
oth to Top Packer:	11 00.7824					leni	72000.00 lb	
Hipe Above KB:	11 03.72					String Weight: Initial	di 00.00046	
				Total Volur	58.00 E	beschacked]] 00.0	
l Collar: Length:	11 00.04S :	Diameter:	ni 22.2	nches Volur	1 81.1	issooJ Ilu9 of theight to Pull Loose:	di 00.0008	
:http://www.equal.com		Diameter:	ni 00.0	nloV senor	0.00 b	Meight set on Packer:	30000.00 lb	
i Pipe: Length:	11 00.1304 :	Diameter:	ni 08.E	nches Volur	58.82	:tdbieW looT	2500.00 lb	
noitsmotal lo								
No. di		:NTTA	Jim Musgrov	۹۸		@ 05.80.0102 :hatS faeT	00:50:10 (
			, CO 80202-					
		Suite 90				Job Ticket: 40205	5:#T&O	
	ONI ' ĐNIL	121 014	th Street			33-18-31 Scoff KS		
			atural Resour	Ces LLC		Pfenninger 1C 33-18	131	
BIFOR	אוזדב	סצו	TL STE	SAT ME	REPC	TЯ	TOOL C	AABAK

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		00.1044			۱.00	Change Over Sub
		4400.00			93.00	Drill Pipe
		4302.00			00.L	Change Over Sub
		4306.00			14.00	Perforations
		4292.00	outside	1929	0.00	Recorder
		4292.00	əpisul	2928	00.0	Recorder
		4292.00			00.1	Stubb
		4291.00			4.00	Packer - Shale
Bottom Of Top Packer	23.50	4287.00			5.00	Packer
		4282.00			2.50	Safety Joint
		09.6724			00. 3	Jars
		4274.50			6 .00	Hydraulic tool
		4569.50			00.8	Shut In Tool
		4564.50			00.1	Change Over Sub
	Accum. Lenguas	nebru (II)	UODISOA	Serial No.	(11) ບາດິບອ	1 001 Describriou

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Recovery Information

Filter Cake:

: Viivitei ee R

:Viinile2

2.00 inches

m.mdo 00.0

mqq 00.0021

Recovery Table

Gas Cushion Pressure:

000.0	340 Feet Weak GIP	00.0
S5.600	C%02 9%05 CO	1825.00
021.8	GO 20%G 80%O	620.00
788.0	GOCM 10%C 20%O 10%M	00.081
əmuloV İdd	Description	لڑ Length

Idd 359.45 :emuloV lstoT

Total Length: 2625.00 ft

Num Gas Bornbs: 0 Laboratory Location: 20 Decrets 1 – 20

:# lsine2

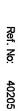
fisd

Num Fluid Samples: 0 Laboratory Name:

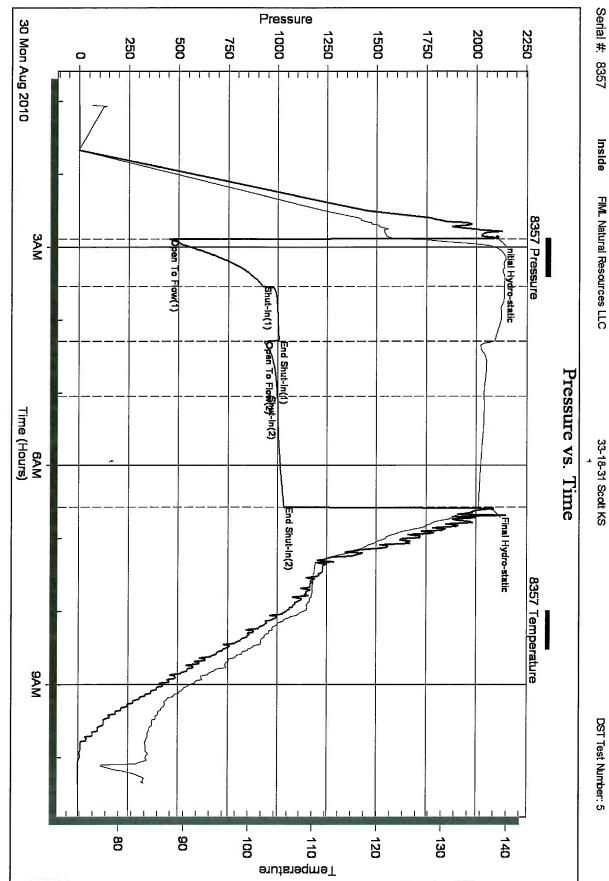
Recovery Comments: API: 29 @ 60 Degrees F = 29

4 ageq 00:80:11 @ 80.00.0102 :batring





Trilobite Testing, Inc



2010.08.31

ESTING, INC.

DRILL STEM TEST REPORT

Prepared For: FIML Natural Resources LLC

410 17th Street Suite 900 Denver, CO 80202-4420

evorgeuM miL :NTTA

33-18-31 Scott KS

Pfenninger 1C 33-1831

 Job Ticket #:
 2010.08.31 @ 04:41:00
 6

 Job Ticket #:
 40206
 DST #:
 6

Trilobite Testing, Inc PO Box 1733 Hays, KS 67601 Ph: 785-625-4778 fax: 785-625-5620

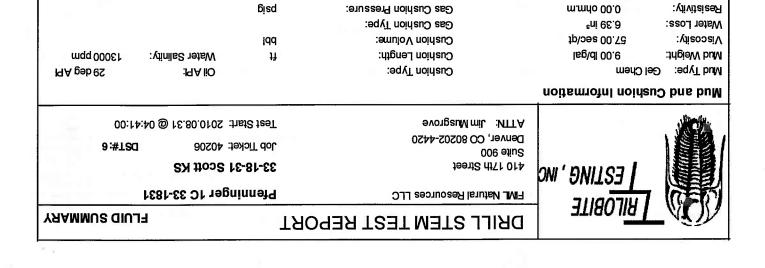
f apeq 02:80:11 @ 80.00.0102 :batring

2010.09.08 @ 11:80:11 @ 80.0102	:betrinfed:		-	o: 40506	/N J≈8		€T ebite T
				00.0 87.4	ΛΛ%Ω/ W%S	341 Eeef GID CO 50%C 80%O COWCM 2%C 10%O 17	24.00 1.00
				81.1	111/00211/0	M%98W%91 MWSO	00.04
rches) Pressure (psig) Gas Rate (Mct/d)	Choke (in			(ldd) emuloV		Description	(ֆ) փնսթղ
setes	Gas					Кесолецу	
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Initial Hydro-static	(∃ 25.39 125.39	(bisq) (psig)	0 ('ujM)	Co+i			•
E SUMMARY		Pressure	əmīT	9.500 B	eadura 1 7003	SV 93U2263	
Bieq 00.0008 1£.80.0102 ₽2:72:80 @ 1£.80.0109 85:31:01 @ 1£.80.0109	b.: Btm: 2	Capacity Last Cali Time On Time Off	16.80.0102 43:84:51		kΩbr∃ mTbr∃		ST COM string s
vations: 2950.00 ft (KB)	erence Be	iteA					erval: iai Depth: le Diameter
Sonventional Bottom Hole Sunck Smith Ti	ter: C	səT	,	(KB)	1J	INFORMATION: Spergen No Whipstock: 6d: 12:48:54 ed: 12:48:54	rmation: viated: Pool Ope
SN Hos	nninger 40: 18-31 Sc Ticket: 40 ל Start: 20	901 33 -		80202-4420	410 17th Str 410 17th Str	ESTING , INCLORITE	
10 33-1831							

		00 02			00 1	
Bottom Of Top Packer	20.00	× 00't	497		90.8	аскег
		00.68	994		9°.00	ydraulic tool
		00.43) 977		00.8	looT ni turi
		00.68	397		00.1	hange Over Sub
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			51	odonič7.8 :nej	təmsi D 2	inmber of Packers:
				dogi 37.9	46.00.64	ool Length:
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					11	Cepth to Bottom Packer:
di 00.0008					11 00.8784	
di 00.00048	String Weight: Initial 8				13 00.81	Cill Pipe Above KB:
11 00.0	besshO looT	1dd 00.S				
	Weight to Pull Loose: 7	Idd 81.1			temsia 11 00.045	Collar: Length:
	Weight set on Packer: 2	1dd 00.0			temsia 11 00.0	Heavy Wt. Pipe: Length:
di 00.001S	Tool Weight:	Idd 28.0	a :emuloV a	ter: 3.80 inche	temsig 11 00.8554	rill Ripe: Length: 4
						roitsmotri loo
00:14:40) @ rc.80.0102 :msic ise	91		N: Jim Musgrove	ША	. unau.
			C	ver, CO 80202-442		
9:#1SC	b Ticket: 40206	ու		006 €		
	3-18-31 Scoft KS	3:		17th Street	OLA ON ' DN	
18	fenninger 1C 33-18	d	י ררכ	. Natural Resource:		
MARDAID JOOT		ТЯОЧЭ	I ТЕЗТ RI	AILL STEN		IBITOBI
					a al construction de la construc	

					46.00	Total Tool Length:	
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		00.1824	əpisul	2928	00.00		Recorder
		00.1884			2.00		Perforations
		00.6784			00.1		Stubb
		00.8784			4.00		Packer
Bottom Of Top Packer	20.00	00'\$784			5.00		Packer
		00.6934			6.00	lo	Hydraulic to
		00.4984			6 .00		Shut In Tool
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Recovery Information

Filter Cake:

Salinity:

Recovery Table

omlo√ bbl	Description	ןן רפּטסנָט
081.1	W%38 M%31 WWSO	240.00
6£7.1	COMCW 5%G 10%0 15%M 70%W	124.00
687.4	GO 20%G 80%O	341.00
000.0	341 Feet GIP	00.0

Num Fluid Samples: 0 ... Num Gas Bombs: 0 Serial #: Laboratory Location:

:emuloV listoT

Laboratory Name: Laboratory Location Recovery Comments: API: 33 @ 100 Degrees F =29.

1100.20T

Total Length:

2.00 inches

mqq 00.00£1

0 Degrees F =29. 0 Degrees F =29.

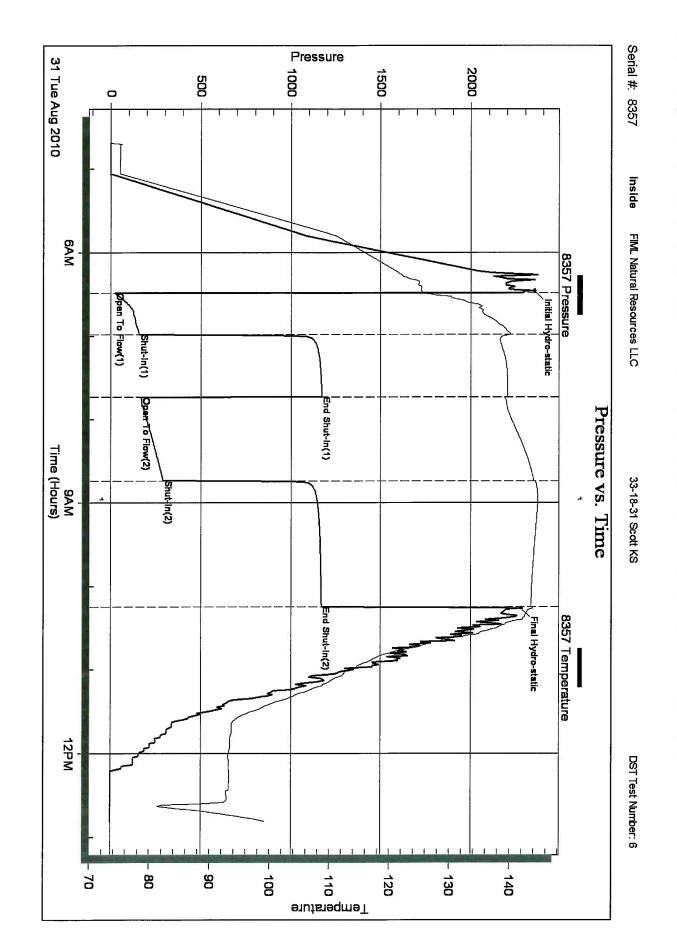
1dd 207.7

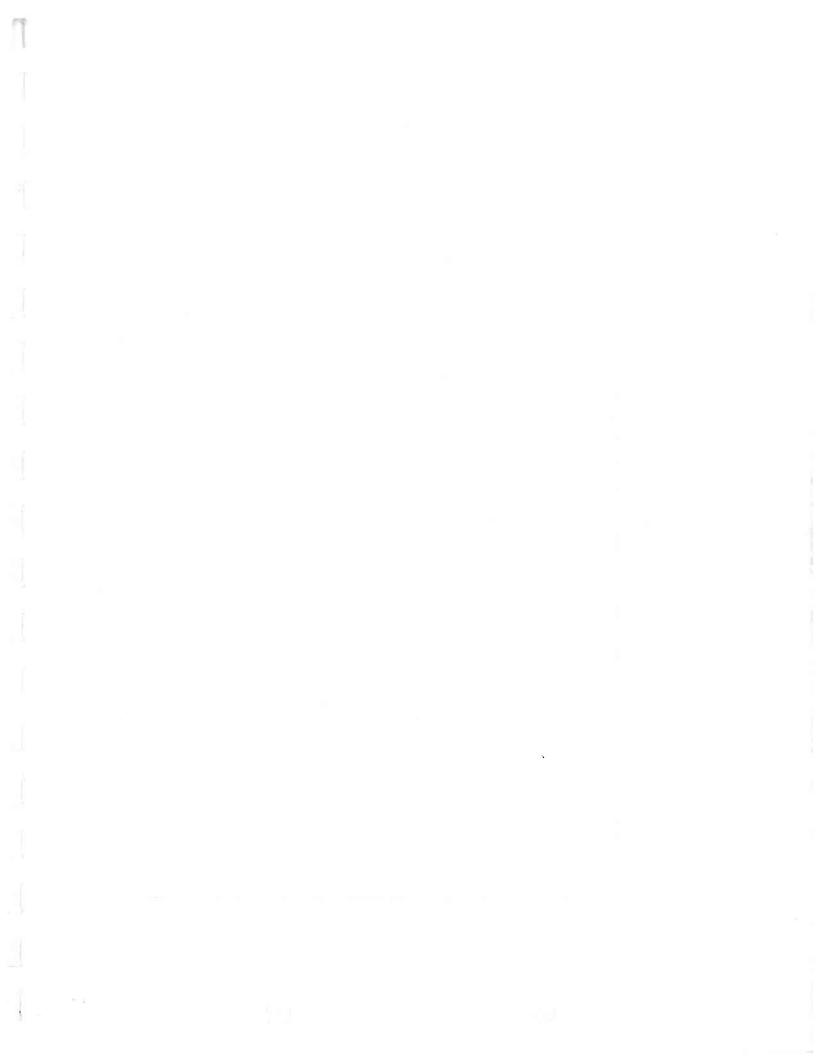
4 apeq 22:80:11 @ 80.00.0102 :batring



Ref. No: 40206

Trilobite Testing, Inc





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. Our Representative Approved By m Sub Total -045-1 □ Accessibility f'osid TSD/9M 06 rinal Shut-In OPGL IstoT Day Standby 09 Wol7 Inni7 Sub Total Extra Recorder Initial Shut-In SH Extra Copies Extra Packer 98 neqO lisitini 🗂 Ruined Packer Shale Packer Ruined Shale Packer 🗖 Straddle (H) Final Hydrostatic 2033 🗖 Sampler 2601 nl-tude lanif (D) D Mileage 24/81 168 (F) Second Final Flow OE. Comments Houriy Standby 891 Wolf listin broose (E) 14:81 _tuO-T SIN Girc Sub 6401 nl-tud& leitinl (D) 98:91 belluq-T 52 I Safety Joint (C) First Final Flow [2] 02:01 _n9q0-T 320 □ Jars (B) First Initial Flow 61 85:01 T-Started 5881 T-On Location lzəT 🗖 6100 (A) Initial Hydrostatic 07:0 udd 30,02 P/ "F Chlorides @ <u>\$71,</u> WA I9A Gravity CE1 Rec Total _TH8 118 10% sed% to teel]рес pnu% 'water pnu% 5 10% seb% Feet of MW Сес %water OHT -56 seb% Heet of BOMW 175 гээд рпш% 9Z %water 00 10% seb% 5 Feet of OSNW гээд pnu% OS 1916W% QZ 10% sed% 10% Teet of ГзеЯ pnu% %water FSI: No return FF: B.D.B. @ 36 M.M. ISI: No CETURA D'9'0'9:JI Blow Description 4,81 Nin Total Depth Chlorides g **LCM** _ppm System 00/7 ESIH Bottom Packer Depth 4/06 Wt. Pipe Run <u>22</u> ٦M 0 Top Packer Depth Drill Collars Run 84 SIV 2016 042 **Drill Pipe Run** Anchor Length, 23 JW buM 2985 24 ,9, Interval Tested **Detested** ES14 - 9014 JYT ĘE .90A State 4020 .0J 15 .qwT Location: Sec. 81 5 Cort Doke / Sin Musgrove ЪiЯ . ი9ව / g9Я .oO 18-IN DEMULL, CO BORDZ 245, 400 75416 1/4 Address ้อา 0562 Elevation 7W/ Company KB 2833 Pfenninger 1281-22 21 01-22-8 .oV test No. Well Name & No. Date 01/1 10978 seansX ,aveH • 5571 xo8 .0.9 178 NO: 040201 'ONI **'ONILS** Π ULOS O & OUA 0 Test Ticket LIBOTIA _

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	seido	D Extra C		Extra Packer		·	QE	beu	O Isitinl
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		comments.				- ELI		ond Initial Flov	oec (∃)
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uttered or sustained, directly or indirectly, through the use of its underectly or indirectly, through the use of its for whom the test is made.	Our Representative of the one for whom a test is made, or for any loss s aged in the hole shall be paid for at cost by the party	or personnel s lost or dam	or damaged of any kind of the property concerning the results of any test, tool	Trilopite Testing inc. shall not be liable fo
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f'osid TSQ/9M	CASSIDIIIty			
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	A Standby			Final Flow
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Ruined Shale Packer	raddle		4018	(H) Final Hydrostatic
	ampler	s 🗖	586	(G) Final Shut-In
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	thiol yield	s 🗖	65	(C) First Final Flow
T-Started	_ <i>_052</i> sı	ም 🗖	-520	(B) First Initial Flow
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Approved by WW set its statements or opinion concerning the results of any test, tools lost or the hole shall be paid for at cost by the party for whom the test is made. ponte Approved By 🖌 Our Representative .0281 IstoT du2 □ Accessibility f'osid TSD/9M rinal Shut-In 06 Total Day Standby 1830 **WOLT IGN** SH Sub Total Extra Recorder Ø SH ni-judS lisitini Extra Copies Extra Packer (swapperd 6:15) 82 neqO lisitini Ruined Packer Shale Packer Gary Dr -052 🗖 Ruined Shale Packer Straddle 3079 H) Final Hydrostatic. 🗖 Sampler (G) Final Shut-In 1201 340, EII (Mark) BOCKEL A Mileage Wolf Isnif broose (F) 166 comments Houriy Standby 186 wol7 Isitini brocec (3) 22:01 1nO-L STN Circ Sub _nl-tud& laitinl (O) 5001 belluq-T 48:2 SZ I Safety Joint 186 (C) First Final Flow 45:6 uedO-I -0570 ars Dars LSH wolf Isitini terif (B) T-Started EP: 8018 5881 (A) Initial Hydrostatic. 25.00 T-On Location tsəT 🗖 7E1 TH8 5892 mqq E Chlorides Gravity _____ Rec Total 0 API RW Feet of sed% **J**GC pnu% %water 10% Feet of 600M Rec pnu% 0/ %water 110% 00 SED% 91 081 Feet of GO 020 гээд pnu% %water 110% 08 sed% OP SED% OE Feet of 60 _ЭЭЯ pnu% %water 10% QL SCH Feet of sed% сээЯ pnu% %water 10% בצד: אקטיא נכוחנט כןייק ב גמייטי FF: 3.0.3 6 4 min. IST: B.O.B. @ /6min Blow Description IF' B.O.B. Imin 1300 Total Depth ppm System **Chlorides** 0044 **LCM** 6 Bottom Packer Depth 4387 Wt. Pipe Run 0 22 M Top Packer Depth OHC Drill Collars Run 58CH SIA 45 15 0H **Drill Pipe Run** Anchor Length **Wud Wt** 211 2.6 Macmarton beizeT enoS 00HH-L8CH Interval Tested Rge. 31 - .qwT #025 State KS 81 EC Location: Sec. .oJ Co. Rep / Geo. Gary Doke / Sim Musque 18 XIV 618 EOROS 02 10/00 006 245 25 426/0/4 SSONDA TWII Elevation Company___ פר 8868 KB 056P PERNENger 10 33-1831 .oN & emsN lleW 5 91-08-8 Date .oN test No. 01/4 P.O. Box 1733 • Hays, Kansas 67601 ио: 070502 SEP 0.2 2010 'ONI DNILSE Test Ticket **FILOBITI**

Trilobite Testing inc. shall be the liable for damaged of any heind 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 oplined concerning the results of any feet, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made. ognant Our Representative Approved By ₩ InstoT duS Syri f'osid TSD/9M Accessibility rinal Shut-In 06 9191 Total_ Day Standby 00 WOLT IBRIT 2000 Sub Total Extra Recorder Initial Shut-In Sh Extra Copies Extra Packer 05 Initial Open Ruined Packer .0872 Shale Packer Ruined Shale Packer Straddle 2220 (H) Final Hydrostatic 🗖 Sampler 8911 (G) Final Shut-In dIJ, 14E D Mileage -02 76C (F) Second Final Flow Comments Hourity Standby 691 Wolf Isitini brooec (3) 6hiE/ 1nO-T JIN duS pric Sub 06/7 nl-tud2 laitinl (D) 51:01 belluq-T I Safety Joint 651 (C) First Final Flow _neqO-T 66:1 ars 🗖 40 Wolf First Initial Flow T-Started 14:h -5881 T-On Location tseT 🗖 0588 (A) Initial Hydrostatic. 103 F Chlorides 13000 BHT & HY Gravity 29 udd `∀ы вм <u>**~360** @</u> IstoT ctal 50% pnu% %water 10% sed% fo teef of ЗЭЯ SED% pnu% SY S5_%water Feet of OSMW 10% 04 C Гес 10 %water Feet of GOMUN pnu% 5/ 10% 01 Sep% 2 h21 гээд 110% QS pnu% SED% 000 %water Feet of GO IhE Cec pnu% %water 10% seb% 10 199-1 Rec FIT: 12" Retmu FF. B.O.B.@ 16 min. ISI: 3" Return Blow Description IF: B. D. B. B. B. B. B. 9 ppm System Chlorides Total Depth **LCM** QE/ 4994 1.9 Wt. Pipe Run 8LSH Bottom Packer Depth_ ٦M 0 4254 Drill Collars Run Top Packer Depth 18 siV 044 6% TEEH **Drill Pipe Run** うで 起 .1W buM Anchor Length. Valisade **DeteTested** 409/7-8654 Interval Tested .dwT 15 .90A EE #005 .00 State 81 Location: Sec. 51 Co. Rep/Geo. Cary Doke / Jim Musgrave 18, DOW бiЯ 410 17th St. 5+6 900 Denver, CO 20203 Address 0568 TWIT פר 8566 KB Elevation Company :78 1881-22 JE 33-1831 Date 8-31-10 .oV test No. .oN & emsN lleW 9 P.O. Box 1733 • Hays, Kansas 67601 ULUC GU 01/7 ио. 040206 CEINE **ESTING** INC. Test Ticket RILOBIT