

Confidentiality Requested:

☐ Yes ☐ No

Kansas Corporation Commission Oil & Gas Conservation Division

1068588

Form ACO-1
August 2013
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:	SecTwpS. R
Address 2:	Feet from North / South Line of Section
City:	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
□ Oil □ WSW □ SWD □ SIOW	Producing Formation:
Gas D&A ENHR SIGW	Elevation: Ground: Kelly Bushing:
GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to: w/ sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
☐ Commingled Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	·
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	Quarter Sec. TwpS. R East West County: Permit #:

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
Confidentiality Requested
Date:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II Approved by: Date:

Page Two



Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whethe with final cha	er shut-in pre art(s). Attach	essure reac n extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, fluid re	ecovery,
Final Radioactivity Lo files must be submitte						ogs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electr	onic log
Drill Stem Tests Taker (Attach Additional		Yes	☐ No				on (Top), Depth ar		Sampl	
Samples Sent to Geo	logical Survey	Yes	□No		Nam	е		Тор	Datum	1
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
				RECORD	Ne					
	2	1				ermediate, product		T	I	
Purpose of String	Size Hole Drilled		Casing n O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Pe Additive	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of	Cement	# Sacks	Used		Type and F	ercent Additives		
Perforate Protect Casing	100 20111111									
Plug Back TD Plug Off Zone										
1 lug 0 li 20 lio										
Did you perform a hydrau	ulic fracturing treatment	on this well?				Yes	No (If No, ski	ip questions 2 ar	nd 3)	
Does the volume of the t							= :	p question 3)		
Was the hydraulic fractur	ring treatment information	on submitted to	the chemical	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ION RECORD Footage of Eac					cture, Shot, Cement			epth
	open,					,,				
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR. F	Producing Met	hod: Pumpin	a	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat			Gas-Oil Ratio	Gra	avity
	1									
	ON OF GAS:		en Hole	METHOD OF			mmingled	PRODUCTION	ON INTERVAL:	ļ
Vented Solo	I Used on Lease bmit ACO-18.)		en noie _	Perf.	(Submit		mmingled mit ACO-4)			

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Ward Loyd, Commissioner Thomas E. Wright, Commissioner

January 19, 2012

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

Re: ACO1 API 15-171-20844-00-00 Pfenninger 10B-30-1831 SE/4 Sec.30-18S-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



24 S. Lincoln Street P.O. Box 31 Russell, KS 67665-2906

Voice:

(817) 546-7282

Fax:

(817) 246-3361



NOV 0 7 2011

INVOICE

Invoice Number 129082

Invoice Date: Oct 30, 2011

Page:

Federal Tax I.D.#: 20-5975804

Bill To:

FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

Pfenninger 10B-30-1831

CustomerID	Well Name# or Customer P.O.	Payment	Terms	
FIML	Pfenger#10B-30-1831	Net 30	ays	
Job Location	Camp Location	Service Date	Due Date	
KS1-01	Oakley	Oct 30, 2011	11/29/11	

Quantity	Item	Description	Unit Price	Amount
240.00	MAT	Class A Common	16.25	3,900.00
5.00	MAT	Gel	21.25	106.25
9.00	MAT	Chloride	58.20	523.80
254.00	SER	Handling	2.25	571.50
55.00	SER	Mileage	27.94	1,536.70
1.00	SER	Surface	1,125.00	1,125.0
75.00	SER	Extra Footage	0.95	71.2
110.00	SER	Heavy Vehicle Mileage	7.00	770.00
1.00	SER	Manifold Head Rental	200.00	200.00
110.00	SER	Light Vehicle Mileage	4.00	440.00
3.00	EQP	8 5/8 Centralizers	64.00	192.00
1.00	EQP	8 5/8 Fiber Baffle Plates	175.00	175.00
1.00	EQP	8 5/8 Wooden Plug	82.00	82.0
1.00	CEMENTER	Terry Heinrich		
1.00	EQUIP OPER	Darren Racette		
1.00	OPER ASSIST	Chris Helpingstine		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1938.70

ONLY IF PAID ON OR BEFORE Nov 24, 2011

Subtotal	9,693.50
Sales Tax	363.47
Total Invoice Amount	10,056.97
Payment/Credit Applied	
TOTAL	10,056.97

D11216 Adam 9, BC

ALLIED CEMENTING CO., LLC. 039869 Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

						- Willer	26
10-30-11	SEC 30	TWP	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
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LEASE	WELL#			off esty 6E.	25-12E-N	SCOTT	13
OLD OR NEW (C	ircle one)		INTO				
CONTRACTOR	42	DRL9 R	ra#1	Ollwinn	SP . LAST		
TYPE OF JOB	SURFA	er or		OWNER	SAME	,	-
HOLE SIZE	12/4	T.D.	3781	CEMENT			
CASING SIZE	8-3/60	DEI		AMOUNT O	RDERED		
TUBING SIZE		DEI	25.500		com 3%.cc	280981	
DRILL PIPB		DEI	TH			-0~6	
TOOL		_ DEI	TH		15	25	ري
PRES. MAX			MIMUM		240 5KS	@ 16-20	3900 \$
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	EQU	IPMENT				_ @	
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	CEMENT		ERKY	_			
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	DRIVER					@	-
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	7 - 111	~		_		TOTAL	2606 25
STREET				_		TOTAL	2000 3
CITY	ST/	ALE	ZIP				
					PLUG & FLOAT	EQUIPMEN	T
				3-C5. Dt.R.	ALTZSA	648	192 €
				1- FIBER	Buttle Plate	0.0	175 8
				1- woods	N Plug	@	97.20
To Allied Cement	ing Co., L	LC.			1	@	0-6
You are hereby re	quested to	rent cem	enting conjumen	1		@	
and furnish cemer	nter and h	elper(s) to	assist owner or			@	
contractor to do w	ork as is	listed. Th	e above work wa	e			10
done to satisfaction	on and sur	ervision o	f owner agent or			TOTAL	449 2
contractor. I have	read and	understan	d the "GENERA	I .		101116	
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SIGNATURE /	Hory	(Veles					
	1						



24 S. Lincoln Street P.O. Box 31 Russell, KS 67665-2906

Voice: Fax:

(817) 546-7282

Quantity

(817) 246-3361



INVOICE

Invoice Number: 129252

Unit Drice

Invoice Date: Nov 8, 2011

Page:

Federal Tax I.D.#: 20-5975804

Bill To:

FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

Ptenninger 108-30-1831

CustomerID	Well Name# or Customer P.O.	Payment Terms	
FIML	Pfenninger10B-301881	Net 30	Days
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 8, 2011	12/8/11

Description

ш	Quantity	Item	Description	Unit Price	Amount
Γ	50.00	MAT	Class A Lightweight	14.50	725.00
	250.00	MAT	Gilsonite	0.89	222.50
	13.00	MAT	FloSeal	2.70	35.10
	748.00	SER	Handling	2.25	1,683.00
	55.00	SER	Mileage (Production Top Stage)	82.28	4,525.40
	1.00	CEMENTER	Terry Heinrich		
	1.00	EQUIP OPER	Wayne McGhghy		
	1.00	OPER ASSIST	Tyler Flipse		
	1.00	OPER ASSIST	JR DeBusk		
	1.00	OPER ASSIST	Ethan Glassman		
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ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 11/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

ONLY IF PAID ON OR BEFORE Dec 3, 2011

Subtotal	7,191.00
Sales Tax	71.73
Total Invoice Amount	7,262.73
Payment/Credit Applied	The state of the s
TOTAL	7,262.73

* Gary Doke

*ALLIED CEMENTING CO., LLC. 039874 Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

DAKLEX

11-8-11 DATE	SEC.	TWP. /85	RANGE 3/W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
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OLD OR NEW (C		Dia-	LOCATION SCOT	CD11 64 2	2928-222	300 11	1 1
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CONTRACTOR	4- 1	DREG	P 3+19="	OWNER	SAME	andre-mu-	tris transfer
TYPE OF JOB A	Production		4800'	CEMENT			
CASING SIZE	51/2"		PTH 4793.09	AMOUNTO	DUEDED		
TUBING SIZE	0/2		PTH 7/13.07		LITE 5 CIL	1/3	211
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			o assist owner or	PARTICULANT	REPUBLISHED FOR		
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			of owner agent or			TOTAL	1770
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TERMS AND C	ONDITIO	NS" listed	d on the reverse sic	de. SALES IAX	(II Ally)	1000000	(S)
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refield Fulfill 25-2	118	()	1				
IGNATURE	600 a	7/1/	D				



24 S. Lincoln Street P.O. Box 31 Russell, KS 67665-2906

Voice:

(817) 546-7282 (817) 246-3361

Fax: (817) 24

NOV 2 1 2011

INVOICE

Invoice Number: 129250

Invoice Date: Nov 8, 2011

Page: 1

Federal Tax I.D.#: 20-5975804

Ptenninger 108-30-1831

Bill To:

FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

 Customer ID
 Well Name# or Customer P.O.
 Payment Terms

 FIML
 Pfenninger10B-301881
 Net 30 Days

 Job Location
 Camp Location
 Service Date
 Due Date

 KS1-02
 Oakley
 Nov 8, 2011
 12/8/11

Quantity	Item	Description	Unit Price	Amount
6.00	MAT	Gel	21.25	127.50
320.00	MAT	ASC	19.00	6,080.0
1,600.00	MAT	Gilsonite	0.89	1,424.0
30.00	MAT	Salt	23.95	718.50
80.00	MAT	FloSeal	2.70	216.00
500.00	MAT	WFR-2	1.27	635.00
406.00	SER	Handling	2.25	913.50
55.00	SER	Mileage	44.66	2,456.30
1.00	SER	Production Bottom Stage	2,405.00	2,405.00
110.00	SER	Heavy Vehicle Mileage	7.00	770.00
1.00	SER	Manifold Head Rental	200.00	200.00
110.00	SER	Light Vehicle Mileage	4.00	440.00
1.00	EQP	5 1/2 Superseal Float Shoe	520.00	520.00
1.00	EQP	5 1/2 Superseal Float Collar	620.00	620.00
25.00	EQP	5 1/2 Centralizers	49.00	1,225.00
1.00	EQP	5 1/2 Lock Ring	42.00	42.0
2.00	EQP	5 1/2 Baskets	337.00	674.00
1.00	EQP	5 1/2 Stage Collar	3,721.00	3,721.0
1.00	CEMENTER	Terry Heinrich		
1.00	EQUIP OPER	Wayne McGhghy		
1.00	OPER ASSIST	Ethan Glassman		
		Subtotal		Continue

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF



ONLY IF PAID ON OR BEFORE
Dec 3, 2011

Subtotal Continued
Sales Tax Continued
Total Invoice Amount Continued
Payment/Credit Applied
TOTAL Continued



24 S. Lincoln Street P.O. Box 31 Russell, KS 67665-2906

Fax:

(817) 546-7282 (817) 246-3361

Bill To:

FIML Natural Resources LLC 410 17th St., Suite 900 Denver, CO 80202

INVOICE

Invoice Number: 129250

Invoice Date: Nov 8, 2011

Page:

2

Federal Tax I.D.#: 20-5975804

Customer ID	Well Name# or Customer P.O.	Payment Terms	
FIML	Pfenninger10B-301881	Net 30	Days
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Nov 8, 2011	12/8/11

Quantity	Item	Description	Unit Price	Amount
1.00	OPER ASSIST	JR DeBusk		
1.00	OPER ASSIST	Tyler Flipse		
		D11216		
		0210-118	01	
		8200-118 Adam 8	B	
		U Car		

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1.1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 4637.56

ONLY IF PAID ON OR BEFORE
Dec 3, 2011

Subtotal	23,187.80
Sales Tax	1,168.22
Total Invoice Amount	24,356.02
Payment/Credit Applied	
TOTAL	24,356.02

\$19718.46

ALLIED CEMENTING CO., LLC. 039873 Federal Tax 1.D.# 20-5975804

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

SERVICE POINT:

							C. V.
11-8-11	SEC.	TWP.	RANGE 3/W	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
FEUN INGER ASE	WELL#	30-1831	LOCATION SC	HOHY GE-	25-1/2 E-12 mark	SCOTT	STATE
D OR NEW (Ci	rcle one)				is to make a		
NEED A COROL	1/2	ORLS A	A POINT HIT RES	National and Park Control	CANE	The Park Inc. of	
ONTRACTOR	Kochuche		Hom Stage"	OWNER	SAME	Local Designation	
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and the ACTVITOR District Military on Party and Street Military and Party III



Prepared For: F

FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

Pfeninnger #10-13

30 18s 31w Scott, KS

Start Date: 2011.11.03 @ 14:42:00

End Date: 2011.11.03 @ 22:36:30

Job Ticket #: 45351

DST# 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

ORIGINAL Printed: 2011 11 11 10 10 10 10 13



FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45351

DST#:1

Test Start: 2011.11.03 @ 14:42:00

GENERAL INFORMATION:

Formation:

LKC B

Deviated:

Whipstock No

ft (KB)

Time Tool Opened: 17:24:45

Time Test Ended: 22:36:30

Interval:

3969.00 ft (KB) To 3998.00 ft (KB) (TVD)

4134.00 ft (KB) (TVD) Total Depth:

Hole Diameter:

7.88 inches Hole Condition: Good

Test Type: Conventional Straddle (Initial)

Tester:

Bradley Walter

Unit No:

Reference Bevations:

2995.00 ft (KB)

2983.00 ft (CF)

KB to GR/CF:

12.00 ft

Serial #: 8652

Press@RunDepth;

Inside

206.45 psig @ 2011.11.03

3970.00 ft (KB) End Date:

2011.11.03

Capacity: Last Calib.:

8000.00 psig

2011.11.03

Start Date: Start Time:

14:42:05

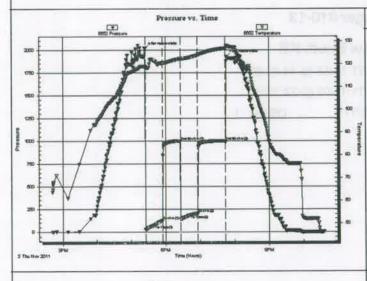
End Time:

22:36:29

Time On Btm Time Off Btm 2011.11.03 @ 17:24:30 2011.11.03 @ 19:45:15

TEST COMMENT: IF: 9" blow.

ISt: No return. FF: 6" Blow FSI: No return.



Pressure	Temp	Annotation
(psig)	(deg F)	movement on the contest
2013.65	119.02	Initial Hydro-static
26.46	118.35	Open To Flow (1)
128.10	120.37	Shut-In(1)
1002.13	122.47	End Shut-In(1)
142.31	122.18	Open To Flow (2)
206.45	123.96	Shut-In(2)
1001.68	126.96	End Shut-In(2)
1926.66	128.21	Final Hydro-static
		~
	(psig) 2013.65 26.46 128.10 1002.13 142.31 206.45 1001.68	(psig) (deg F) 2013.65 119.02 26.46 118.35 128.10 120.37 1002.13 122.47 142.31 122.18 206.45 123.96 1001.68 126.96

PRESSURE SUMMARY

Volume (bbl) Length (ft) 390.00 mcw 20m 80w 2.09

Recovery

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Printed: 2011.11.11 @ 10:10:03



FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45351

DST#: 1

Test Start: 2011.11.03 @ 14:42:00

GENERAL INFORMATION:

Formation: LKC B

Deviated: No Whipstock:

ft (KB)

Time Tool Opened: 17:24:45

Time Test Ended: 22:36:30

3969.00 ft (KB) To 3998.00 ft (KB) (TVD)

Fotal Depth:

nterval:

Start Time:

4134.00 ft (KB) (TVD)

Hole Diameter:

7.88 inchesHole Condition: Good

Test Type: Conventional Straddle (Initial)

Tester: Bradley Walter

Unit No:

Reference Bevations:

2995.00 ft (KB)

2983.00 ft (CF)

2011,11.03

KB to GR/CF:

12.00 ft

8000.00 psig

Serial #: 8360

Press@RunDepth:

Start Date:

Below (Straddle) psig @ 4034.00 ft (KB) 2011.11.03

14:42:05

End Date: End Time:

2011.11.03 22:36:44

Last Calib.:

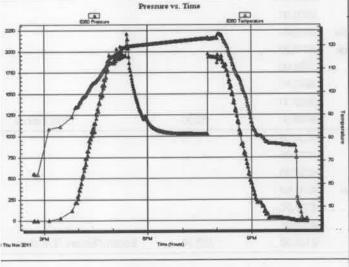
Capacity:

Time On Btm

Time Off Btm

TEST COMMENT: IF: 9" blow.

ISI: No return. FF: 6 " Blow FSI; No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	9600
		(0) (U.) (2) (U.) (U.)		
3		OUT DOWN		
		OTIL		

Recovery

Length (ft)	Description	Volume (bbl)
390.00	mcw 20m 80w	2.09

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)



TOOL DIAGRAM

FIML Natural Resources, LLC

410 17th St STE 900 ' Denver CO 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45351

DST#: 1

Test Start: 2011.11.03 @ 14:42:00

Tool Information

Drill Fipe: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar:

Drill Pipe Above KB:

Length: 3611.00 ft Diameter: Length: 371.00 ft Diameter:

32.00 ft

3.80 inches Volume: 50.65 bbl 0.00 inches Volume: 0.00 bbl 1.82 bbl 2.25 inches Volume: Total Volume:

52.47 bbl

Tool Weight:

1500.00 lb

Weight set on Packer: 25000.00 lb Weight to Pull Loose: 83000.00 lb Tool Chased 0.00 ft

String Weight: Initial 72000.00 lb

Final 72000.00 lb

Depth to Top Packer: Depth to Bottom Packer:

3999.00 ft Interval between Packers: 30.00 ft Tool Length: 181.00 ft

Number of Packers:

3

3969.00 ft

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (It)	Accum. Lengths	
Shut In Tool	5.00			3955.00	100	
Hydraulic tool	5.00			3960.00		
Packer	5.00			3965.00	19.00	Bottom Of Top Packer
Packer	4.00			3969.00		
Stubb	1.00			3970.00		
Recorder	0.00	8652	Inside	3970.00		
Recorder	0,00	8322	Outside	3970.00		
Perforations	26.00			3996.00		
Blank Spacing	1.00			3997.00		
Blank Off Sub	1.00			3998.00		
Blank Spacing	1.00			3999.00	30.00	Tool Interval
Packer	5.00			4004.00		
Perforations	29.00			4033.00		
Change Over Sub	1.00			4034.00		
Recorder	0.00	8360	Below	4034.00		
Drill Ape	93.00		- 4	4127.00		
Change Over Sub	1.00		106111	4128.00		
Bullnose	3.00			4131.00	132.00	Bottom Packers & Anchor

Total Tool Length:

181.00



FLUID SUMMARY

FIML Natural Resources, LLC

410 17th St STE 900

Denver CO 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45351

ft

bbl

psig

DST#: 1

Test Start: 2011.11.03 @ 14:42:00

Mud and Cushion Information

Mud Type: Gel Chem

9.00 lb/gal

Viscosity: Water Loss:

Mud Weight:

Resistivity:

Salinity: Filter Cake: 51.00 sec/qt 7.96 in³ ohmm

2000.00 ppm 1.00 inches **Cushion Type:**

Cushion Length: Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

26000 ppm

Recovery Information

Recovery Table

Length Description Volume bbl 390.00 mcw 20m 80w 2.091

Total Length:

390.00 ft

Total Volume:

2.091 bbl

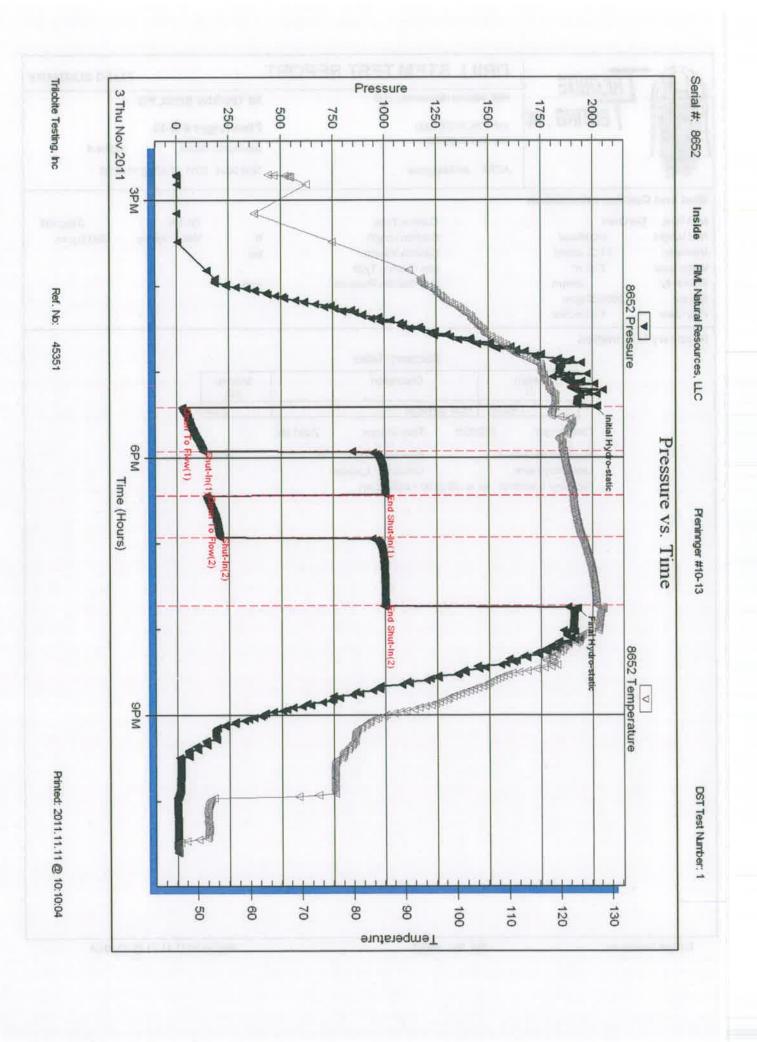
Num Fluid Samples: 0

Num Gas Bombs:

Laboratory Location:

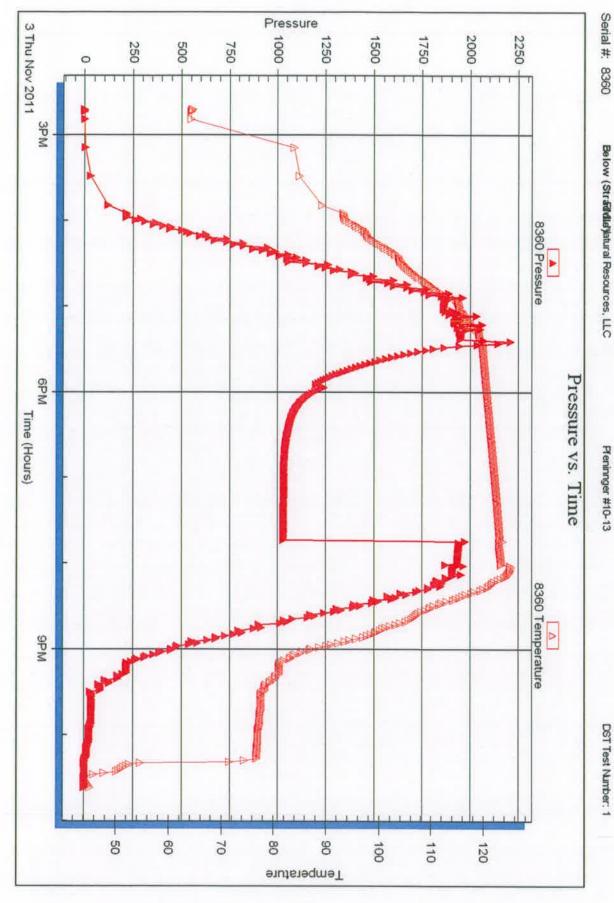
Serial #.

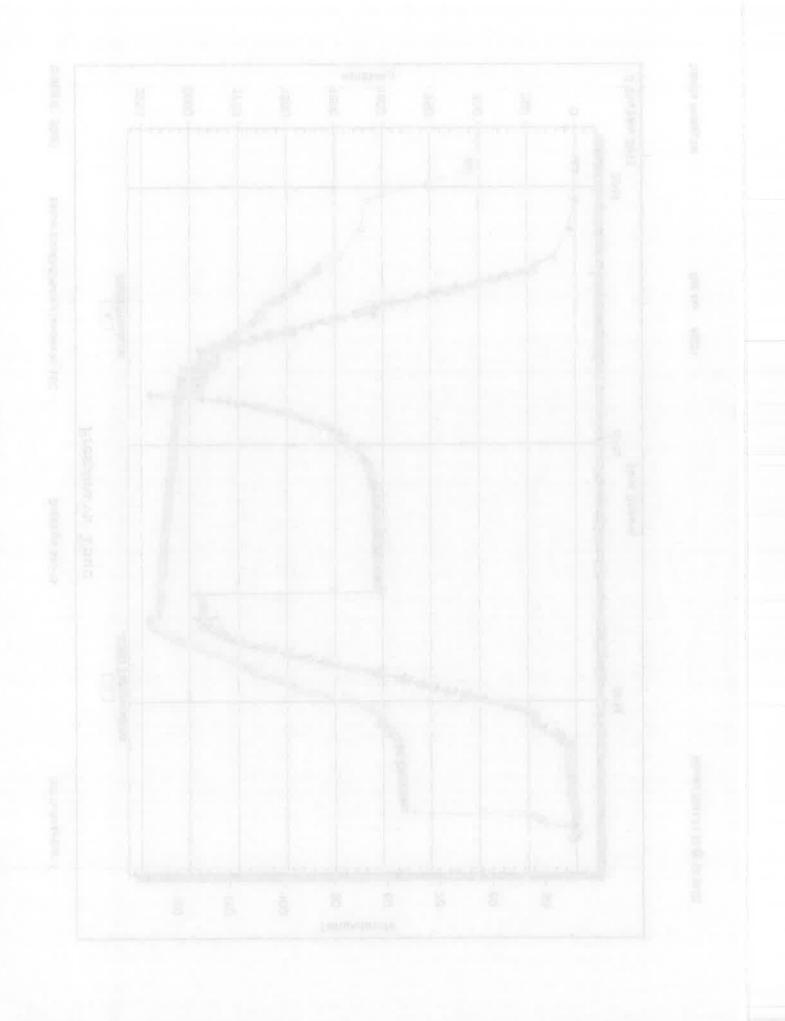
Laboratory Name: Recovery Comments: rw is .30 @ 60 = 26000ppm



Printed: 2011.11.11 @ 10:10:05









RILOBITE ESTING , INC.

DRILL STEM TEST REPORT

Prepared For: FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

Pfeninnger #10-13

30 18s 31w Scott, KS

Start Date: 2011.11.04 @ 13:20:00 End Date: 2011.11.04 @ 20:38:30 Job Ticket #. 45352 DST #. 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45352

DST#: 2

Test Start: 2011.11.04 @ 13:20:00

GENERAL INFORMATION:

Time Tool Opened: 15:35:45

Time Test Ended: 20:38:30

Formation:

LKC J

Deviated:

No

Whipstock

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Bradley Walter

Unit No:

Reference Elevations:

2995.00 ft (KB)

2983.00 ft (CF)

KB to GR/CF:

12.00 ft

Interval: Total Depth: 4217.00 ft (KB) To 4264.00 ft (KB) (TVD)

4217.00 ft (KB) (TVD)

Hole Diameter:

7.88 inchesHole Condition: Good

Inside

Serial #: 8652 Press@RunDepth:

90.07 psig @ 2011.11.04

4218.00 ft (KB)

End Date:

2011.11.04

Capacity: Last Calib.: 8000.00 psig

2011.11.04

Start Date: Start Time:

13:20:05

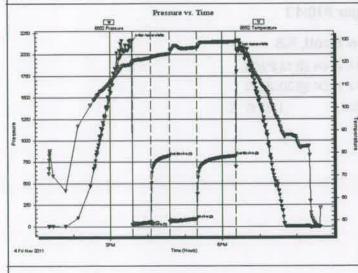
End Time:

20:38:29

Time On Btm Time Off Btm 2011.11.04@15:35:30 2011.11.04@18:23:15

TEST COMMENT: IF 2 1/2" blow.

ISI: No return FF: 1 1/2" blow. FSI: No return.



PRESSURE SUMMARY

1	Time	Pressure	Temp	Annotation
1	(Mn.)	(psig)	(deg F)	
1	0	2158.63	120.12	Initial Hydro-static
1	1	20.98	119.29	Open To Flow (1)
1	30	48.59	122.05	Shut-In(1)
	60	823.20	123.75	End Shut-In(1)
1	61	56.71	123.58	Open To Flow (2)
	105	90.07	126.56	Shut-In(2)
1	166	823.62	129.08	End Shut-In(2)
	168	2050.90	129.39	Final Hydro-static
1				
1				
1				
١				

Recovery

Length (ft)	Description	Volume (bbl)
120.00	w cm 45w 55m (oil spots)	0.59
		10-0-0
Recovery from:	multiple tests	

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mct/d)

Trilobite Testing, Inc Ref. No: 45352

Printed: 2011.11.11 @ 10:13:17



TOOL DIAGRAM

FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45352

DST#: 2

Test Start: 2011.11.04 @ 13:20:00

Tool Information

Drill Ape: Length: 3831.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar:

Drill Pipe Above KB: Depth to Top Packer: Depth to Bottom Packer:

Interval between Packers: 47.00 ft Tool Length:

Number of Packers:

68.00 ft

4217.00 ft

Length: 371.00 ft Diameter: 6.00 ft

3.80 inches Volume: 0.00 inches Volume: 0.00 bbl 2.25 inches Volume:

1.82 bbl Total Volume: 55.56 bbl

53.74 bbl

Tool Weight:

Weight set on Packer: 25000.00 lb

1500:00 lb

Weight to Pull Loose: 100000.0 lb Tool Chased 0.00 ft

String Weight: Initial 70000.00 lb Final 70000.00 lb

3 Diameter:

ft

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4197.00	Latina in	
Shut In Tool	5.00			4202.00		
Hydraulic tool	5.00			4207.00		
Packer	5.00			4212.00	21.00	Bottom Of Top Packer
Packer	5.00			4217.00		
Stubb	1.00			4218.00		
Recorder	0.00	8360	Outside	4218.00		
Recorder	0.00	8322	Inside	4218.00		
Perforations	10.00			4228.00		
Change Over Sub	1.00			4229.00		
Drill Pipe	31.00			4260.00		
Change Over Sub	1.00			4261.00		
Bullnose	3.00			4264.00	47.00	Bottom Packers & Anchor

Total Tool Length:

68.00



FLUID SUMMARY

FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45352

DST#: 2

Test Start: 2011.11.04 @ 13:20:00

Oil API:

Mud and Cushion Information

Mud Type: Gel Chem

Viscosity:

Mud Weight: 9.00 lb/gal 53.00 sec/qt

Water Loss: 9.56 in^a

Resistivity: ohmm 4200.00 ppm

Salinity: Filter Cake:

1.00 inches

Cushion Type:

Cushion Length:

Oushion Volume:

Gas Cushion Type:

Gas Qushion Pressure:

psig

ft

Serial #:

Water Salinity:

deg API

17000 ppm

Recovery Information

Recovery Table

Volume Length Description ft bbl 0.590 w cm 45w 55m (oil spots) 120.00

Total Length:

120.00 ft

Total Volume:

0.590 bbl

Num Fluid Samples: 0 Laboratory Name:

Num Gas Bombs:

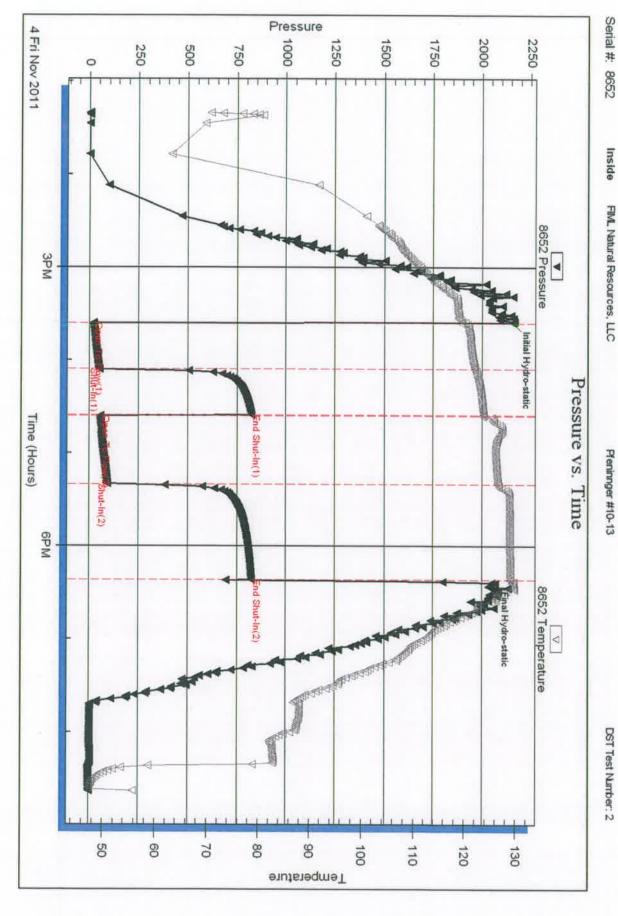
Laboratory Location:

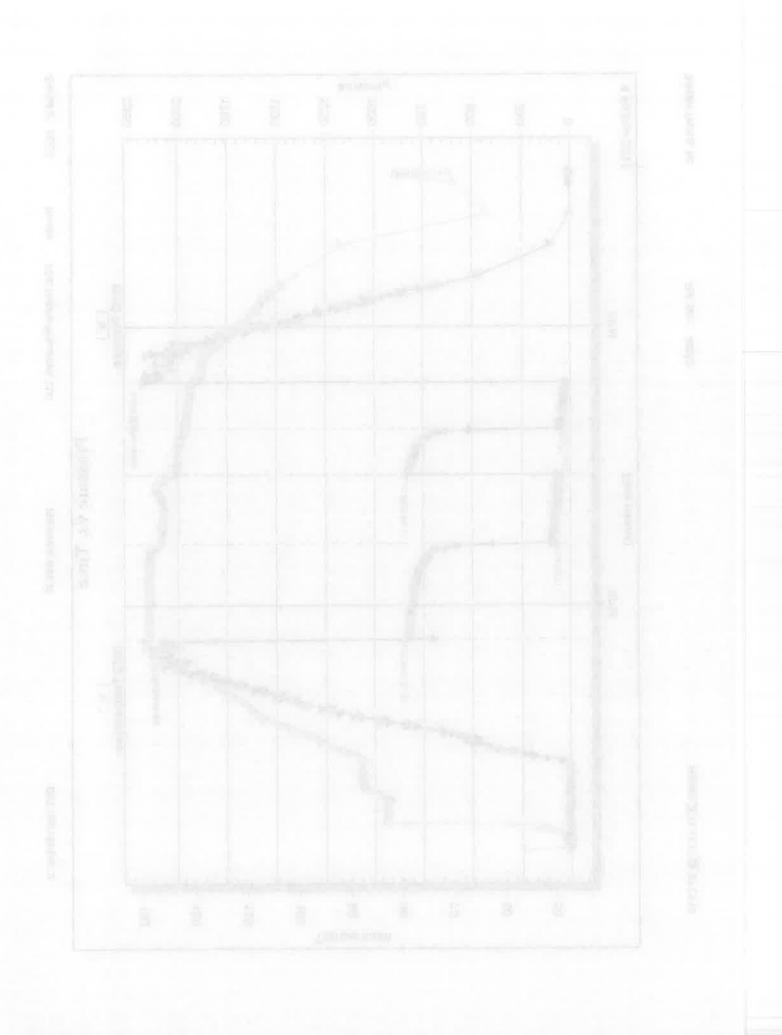
Recovery Comments: rw is .45 @ 60 = 17000ppm

Ref. No: 45352 Trilobite Testing, Inc

Printed: 2011.11.11 @ 10:13:17











Prepared For: FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

Pfeninnger #10-13

30 18s 31w Scott, KS

Start Date: 2011.11.05 @ 14:14:00 End Date: 2011.11.06 @ 00:04:15 Job Ticket #: 45353 DST #: 3

Trilobite Testing, Inc.

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



FIML Natural Resources, LLC

410 17th St STE 900 Denver CO 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45353

DST#:3

Test Start: 2011.11.05 @ 14:14:00

GENERAL INFORMATION:

Formation:

Marmaton

Deviated:

No Whipstock ft (KB)

Time Tool Opened: 16:28:00 Time Test Ended: 00:04:15

Interval: Total Depth:

4305.00 ft (KB) To 4406.00 ft (KB) (TVD)

4406.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester:

Bradley Walter

Unit No:

Reference Elevations:

2995.00 ft (KB)

2983.00 ft (CF)

KB to GR/CF:

12.00 ft

Serial #: 8652

Press@RunDepth:

Inside

801,19 psig @

4306.00 ft (KB)

2011.11.05 End Date: 2011.11.06

Capacity: Last Calib.: 8000.00 psig

2011.11.05

Start Date: Start Time:

14:14:05

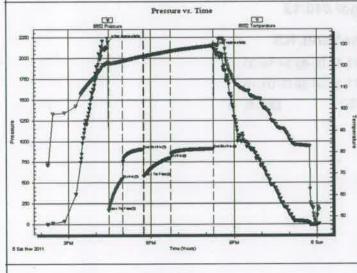
End Time:

00:04:15

Time On Btm Time Off Btm 2011.11.05 @ 16:27:30 2011.11.05 @ 20:17:00

TEST COMMENT: IF: BOB @ 30 seconds.

ISI: BOB @ 13 minutes. FF: BOB@ 90 seconds. FSI: 7" return blow.



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	2194.52	121.86	Initial Hydro-static	
1	167.36	121.25	Open To Flow (1)	
31	548.30	122.28	Shut-In(1)	
76	906.14	124.60	End Shut-In(1)	
77	578.92	124.53	Open To Flow (2)	
136	801.19	126.97	Shut-In(2)	
228	908.96	129.54	End Shut-In(2)	
230	2115.59	130.04	Final Hydro-static	

Recovery

1.82
13.18
10.66
191

Gas Rates

Gas Rate (Mcf/d) Choke (inches) Pressure (psig)

Trilobite Testing, Inc Ref. No: 45353

Printed: 2011,11.11 @ 10:13:41



TOOL DIAGRAM

FIML Natural Resources, LLC

410 17th St STE 900 Denver 00 80202

ATTN: Jim Musgrove

30 18s 31w Scott, KS

Pfeninnger #10-13

Job Ticket: 45353

DST#:3

Test Start: 2011.11.05 @ 14:14:00

Tool Information

Drill Pipe: Length: 3925.00 ft Diameter: Heavy Wt. Pipe: Length: 0.00 ft Diameter: Drill Collar:

Length: 371.00 ft Diameter:

Drill Pipe Above KB: Depth to Top Packer:

Depth to Bottom Packer: Interval between Packers: 101.00 ft

Tool Length:

Number of Packers:

122.00 ft

ft

12.00 ft

4305.00 ft

3 Diameter:

3.80 inches Volume: 55.06 bbl 0.00 inches Volume: 0.00 bbl 2.25 inches Volume: 1.82 bbl

Total Volume: 56.88 bbl

Tool Weight:

1500.00 lb

Weight set on Packer: 25000.00 lb Weight to Pull Loose: 87000.00 lb Tool Chased 0.00 ft

String Weight: Initial 74000.00 lb

Final 78000.00 lb

Tool Comments:

6.75 inches

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00	100		4285.00		
Shut In Tool	5.00			4290.00		
Hydraulic tool	5.00			4295.00		
Packer	5.00			4300.00	21.00	Bottom Of Top Packer
Packer	5.00			4305.00		
Stubb	1.00			4306.00		
Recorder	0.00	8360	Outside	4306.00		
Recorder	0.00	8652	Inside	4306.00		
Perforations	32.00			4338.00		
Change Over Sub	1.00			4339.00		
Drill Pipe	63.00			4402.00		
Change Over Sub	1.00			4403.00		
Bullnose	3.00			4406.00	101.00	Bottom Packers & Anchor
Total Total Location	400.00					

Total Tool Length:

122.00



FLUID SUMMARY

FIML Natural Resources, LLC

30 18s 31w Scott, KS

410 17th St STE 900 Denver CO 80202

Pfeninnger #10-13 Job Ticket: 45353

DST#:3

ATTN: Jim Musgrove

Test Start: 2011.11.05 @ 14:14:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal 56.00 sec/qt

Viscosity: Water Loss: 7.97 in^a

Salinity:

Resistivity: ohmm

5400.00 ppm Filter Cake: 1.00 inches Oushion Type:

Oushion Length:

Oushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

psig

Water Salinity:

OI APL

31 deg API

0 ppm

Recovery Information

Recovery Table

Volume Length Description bbl 1.820 370.00 gow cm 20g 20o 30w 30m 13.177 940.00 gmco 15g 5m 80o 10.661 760.00 go 40g 60o

Total Length:

2070.00ft

Total Volume:

25.658 bbl

Num Fluid Samples: 0

Laboratory Name: Recovery Comments: Num Gas Bombs:

Laboratory Location:

Serial #:



Printed: 2011.11.11 @ 10:13:43



Inside

FIML Natural Resources, LLC

