



## **WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Operator: License # 33625	API No. 15 - 051-25, 718-0000
Name: HERTEL OIL COMPANY, LLC	County: Ellis
Address: 704 East 12th Street	NW NW SE Sec. 8 Twp. 14 S. R. 17W East X West
City/State/Zip: Hays, KS 67601	2310 feet from (S)/ (circle one) Line of Section
	2310 feet from E) ( (circle one) Line of Section
Purchaser:	
Phone: (785) 628-2445	Footages Calculated from Nearest Outside Section Corner:
Discorrows Dwilling Co. The	(circle one) NE (SE) NW SW Lease Name: HOFFMAN Well #: 3-8
Contractor: Name.	
I ICADSA:	Field Name: Younger
Wellsite Geologist: Duane Stecklein RECEN	EDoducing Formation: None
Designate Type of Completion:	Elevation: Ground: 2002 · Kelly Bushing: 2010
X New Well Re-Entry Workover FEB 25	Total Depth: 3635 Plug Back Total Depth:
Oil SWD SIOW Temp. Abd.	Amount of Surface Pipe Set and Cemented at 222.48 Feet
Gas ENHR SIGW	Multiple Stage Cementing Collar Used?
X Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth setFeet
if Workover/Re-entry: Old Well Info as follows:	If Alternate II completion, cement circulated from
Operator:	feet depth tosx cmt.
Well Name:	(15sks In Rat Hole)(10sks In Mouse Hole)
Original Comp. Date:Original Total Depth:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 14,000 ppm Fluid volume 240 bbls
Plug Back Total Depth	Dewatering method used Evaporation
Commingled Docket No	
Dual Completion Docket No	Location of fluid disposal if hauled offsite:
Other (SWD or Enhr.?) Docket No.	Operator Name:
	Lease Name:License No.:
1/5/08	Quarter Sec TwpS. R East West
Recompletion Date  Bate Headried 1B  Gonpletion Date  Recompletion Date	County: Docket No.:
	·
Kansas 67202, within 120 days of the spud date, recompletion, workove Information of side two of this form will be held confidential for a period of 1 107 for confidentiality in excess of 12 months). One copy of all wireline logs TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells	1
All requirements of the statutes, rules and regulations promulgated to regulation are complete and correct to the best of my knowledge.	ate the oil and gas industry have been fully complied with and the statements
Tieren are complete and correct to the best of my knowledge.	,
Signature:	KCC Office Use ONLY
Title: Managing Member Date: 3-15-6	Letter of Confidentiality Received
1-11	If Denied, Yes Date:
Subscribed and sworn to before me this 15 thay of February	Wireline Log Received
2008.	Geologist Report Received
Notary Public July W. Dungardt	UIC Distribution
Data Commission Evoires: 03+20-2009	
Date Commission Expires.	ARLENE M. BRUNGARDT
	NOTARY PUBLIC STATE OF KANSAS
STATE OF KANSAS	My App. Exp. 3-20-2009

Operator Name: HE	MINR	MPANY, LLC	Lease	, Name:	HOFFMAI	N	_ Well #:	3-8	
Sec. 8 Twp. 14	4_s. R17\(	☐ East 🗓 West	County	/:	Ellis				
INSTRUCTIONS: Show tested, time tool open a temperature, fluid recov	w important tops a and closed, flowing ery, and flow rates	nd base of formations por and shut-in pressures, if gas to surface test, a nal geological well site	whether shalong with fi	nut-in pre	essure reached s	static level, hydro	static pressur	res, bot	tom hole
Drill Stem Tests Taken (Attach Additional Sh	). eets) . "1	∑ Yes			og Formatic	on (Top), Depth a	nd Datum	· [	] Sample
Samples Sent to Geolo	gical Survey	Yes X No		. Nam	16		Тор		Datum
Cores Taken Electric Log Run (Submit Copy)		Yes No	,						
List All E. Logs Run:	•				•				
			RECORD	X N				<del></del>	
Purpose of String	Size Hole	Report all strings set-o	Weig	ght	Setting	Type of	# Sacks		e and Percent
	Drilled	Set (In O.D.)	Lbs./	Ft.	Depth	Cement	Used	1	Additives
Surface Pipe	12½ ·	8 5/8	20		222.48	. Common	150	2%6	e1&3%CC
		· .							
	T	ADDITIONAL	CEMENTI	NG / SQI	JEEZE RECORD				
Purpose: Perforate Protect Casing	Depth Top Bottom	Type of Cement	#Sacks	Used		Type and Po	ercent Additives	S	
Plug Back TD Plug Off Zone									
Shots Per Foot		ON RECORD - Bridge Pluç Footage of Each Interval Per				ture, Shot, Cement nount and Kind of Ma		rd	Depth
-	•		· ·			. *	······································		
TUBING RECORD	Size	Set At	Packer A	st.	Liner Run	Yes No			
Date of First, Resumerd F	Production, SWD or E	nhr. Producing Met	thod	Flowin	g 🖟 🗋 Pumpin	ng 🔲 Gas Lift	Oth	er (Expla	in)
Estimated Production Per 24 Hours	Oil 'a	Bbis. Gas	Mcf	Wat	er ´*- , Bt	bls. G	as-Oil Ratio		Gravity
Disposition of Gas	METHOD OF C	OMPLETION	·	··········	Production Interv	val			
Vented Sold (If vented, Subm	Used on Lease nit ACO-18.)	Open Hole	Perf.	. []	Dually Comp.	Commingled			
	;	AT ASSEMAL TO STAN	A BATING TOM TOM TO 12	A	Navis Navis	•		•	٠

# ALLIED CEMENTING CO., LLC. 33951

Federal Tax I.D REMIT TO P.O. BOX 31 SERVICE POINT: RUSSELL, KANSAS 67665 Russell KS TWP. SEC RANGE CALLED OUT ON LOCATION JOB START JOB FINISH DATE 1-5-08 14 ITW 5:15 pm COUNTY STATE LOCATION Hays KS E on Hwy 40 + Toulon LEASE Hoffman WELL# 3-8 Ellis OLD OR NEW (Circle one) 15 1/2 E N into. CONTRACTOR DISCOVERY Drilling Rig #2 **OWNER** TYPE OF JOB AS WE FACE HOLE SIZE 12 4 CASING SIZE 8 5/8 T.D. **224 CEMENT** AMOUNT ORDERED 150 com 3%cc 2% gel 20 DEPTH 222.48 **TUBING SIZE** DEPTH DRILL PIPE **DEPTH** TOOL **DEPTH** PRES. MAX **MINIMUM** COMMON\_\_\_\_\_\_\_ @ 12,15 MEAS. LINE SHOE JOINT POZMIX CEMENT LEFT IN CSG. GEL PERFS. CHLORIDE DISPLACEMENT 13.21 ASC RECEIVED **EQUIPMENT** @ @ FEB 2 5 2008 @ PUMP TRUCK CEMENTER John Roberts @ HELPER Robert # 409 KCC WICHITA @ **BULK TRUCK** DRIVER Travis @ # 345 **@ BULK TRUCK** @ **DRIVER** 150 HANDLING @ /. MILEAGE 20 SK/mi/09 **REMARKS:** TOTAL 2716. **SERVICE** 

DEPTH OF JOB		
PUMP TRUCK CHARGE		453 a
EXTRA FOOTAGE	@	
MILEAGE 20	@ 7	140,00
MANIFOLD	@	
	@	
	_ @	
	TOTAL	1033.
	-01113	
	PUMP TRUCK CHARGE EXTRA FOOTAGE MILEAGE 20	PUMP TRUCK CHARGE  EXTRA FOOTAGE @

PLUG & FLOAT EQUIPMENT · -

@

@

85/8 Wood Plug

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment

\_ STATE \_

#### **GENERAL TERMS AND CONDITIONS**

DEFINITIONS: In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—TERMS: Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—ATTORNEY FEES: In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including,

but not limited to, a reasonable sum as and for attorney's fees.

—PRICES AND TAXES: All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—TOWING CHARGES: ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—PREPARATION CHARGES: If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the

cancellation.

—DEADHAUL CHARGES: Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—SERVICE CONDITIONS AND LIABILITIES:

- 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:
- (A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:
- (B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.
- 2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES:

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS

#### ALLIED CEMENTING CO., LLC. 33956 REMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665 Þ SERVICE POINT: DATE /-11-08 TWP. Russell KS RANGE CALLED OUT 17W LEASE Hoffman WELL# 3-8 ON LOCATION JOB START JOB FINISH LOCATION Toulon and Mwy 40 1 South OLDOR NEW (Circle one) 6:15 am COUNTY 1/2 East North into Ellis CONTRACTOR Discovery Drilling Rig #2 TYPE OF JOB (Rotury Plug OWNER **HOLE SIZE** CASING SIZE CEMENT AMOUNT ORDERED 225 6940 4% Gel 14\*F10 **DEPTH** TUBING SIZE DEPTH DRILL PIPE DEPTH 3525 TOOL DEPTH PRES. MAX **MINIMUM** MEAS. LINE COMMON 135 SHOE JOINT 1640, CEMENT LEFT IN CSG. POZMIX 612. PERFS. @ 18. DISPLACEMENT **CHLORIDE** @ **ASC EQUIPMENT** @ FIOSEN SE RECEIVED 56165 @ 2.20 YUMP TRUCK CEMENTER John Roberts @ 366 ULK TRUCK @ HELPER Adrian FEB 25 2008 @ KCC WICHITA 410 @ DRIVER Doug Helper - Neal @ **ULK TRUCK** @ DRIVER HANDLING\_ @ @ MILEAGE 22 **REMARKS:** 461. 04 3525' TOTAL 3460, 25 sks 235 1 25 sks 580' SERVICE 80 sks 275' 40 sks DEPTH OF JOB 401

PUMP TRUCK CHARGE

@ @

TOTAL 1047, 60

·\_\_ @

PLUG & FLOAT-EQUIPMENT --

@

@

**EXTRA FOOTAGE** 

Dry Hole Plug

MILEAGE\_

MANIFOLD\_

10sks

ARGETO: Hertel Oil Co. Inc

\_STATE

are hereby requested to rent cementing equipment

Mousehole 10sks

Rathole 15 sks

Allied Cementing Co., LLC.



**TOOL DIAGRAM** 

Hertel Oil Co LLC

Hoffman #3-8

704 E 12th St Hays KS 67601 8 14 17 Ellis KS Job Ticket: 31495

**DST#:1** 

ATTN: Mike Hertel

Test Start: 2008.01.10 @ 00:36:43

Tool Information

Drill Pipe Above KB:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3483.00 ft Diameter:

3.80 inches Volume:

48.86 bbl 0.00 bbl Tool Weight:

2200.00 lb

Drill Collar:

Length:

0.00 ft Diameter: 30.00 ft Diameter: 0.00 inches Volume: 2.25 inches Volume:

0.15 bbl

Weight set on Packer: 25000.00 lb Weight to Pull Loose: 65000.00 lb

Total Volume: 49.01 bbl Tool Chased 0.00 ft

Depth to Top Packer: 3525.00 ft

Depth to Bottom Packer:

String Weight: Initial

49000.00 lb Final 50000.00 lb

Interval between Packers:

100.02 ft

121.02 ft

9.00 ft

ft

2

Diameter:

6.75 inches

Number of Packers: Tool Comments:

Tool Length:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3505.00		
Shut In Tool	5.00			3510.00		
Hydraulic tool	5.00			3515.00		
Packer	5.00			3520.00	21.00	Bottom Of Top Packer
Packer	5.00			3525.00		· · · · · ·
Stubb	1.00			3526.00	•	
Perforations	7.00			3533.00		
Blank Spacing	64.00			3597.00		
Recorder	0.01	8365	Inside	3597.01		
Recorder	0.01	8371	Outside	3597.02	4	
Perforations	25.00			3622.02		
Bullnose	3.00			3625.02	100.02	Bottom Packers & Anchor
Total Tool Length	121 02	·			, .	

Total Tool Length:

Trilobite Testing, Inc.

Ref. No: 31495

Printed: 2008.01.14 @ 10:08:47 Page 3



**FLUID SUMMARY** 

Hertel Oil Co LLC

Hoffman #3-8

704 E 12th St Hays KS 67601

8 14 17 Ellis KS

Job Ticket: 31495

ft

bbl

psig

DST#: 1

ATTN: Mike Hertel

Test Start: 2008.01.10 @ 00:36:43

**Mud and Cushion Information** 

Mud Type: Gel Chem

Mud Weight: Viscosity:

9.00 lb/gal

Water Loss:

50.00 sec/qt 8.76 in<sup>3</sup>

Resistivity:

ohm.m

2600.00 ppm

**Cushion Type:** 

**Cushion Length:** 

**Cushion Volume:** Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API ppm

Salinity: Filter Cake:

2.00 inches

**Recovery Information** 

Recovery Table

Length Description Volume bbl 220.00 SOCM 2%O 98%M 2.813

Total Length:

220.00 ft

Total Volume:

2.813 bbl

0

Num Fluid Samples: 0

Num Gas Bombs:

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc

Ref. No: 31495

Printed: 2008.01.14 @ 10:08:47



Prepared For:

Hertel Oil Co LLC

704 E 12th St Hays KS 67601

15-051-29718-000 ATTN: Mike Hertel

8 14 17 Ellis KS

#### Hoffman #3-8

Start Date: 2008.01.10 @ 00:36:43 End Date: 2008.01.10 @ 07:45:07 Job Ticket #: 31495

DST#: 1

Trilobite Testing, Inc. PO Box 362 Hays, KS 67601 ph: 785-625-4778 fax: 785-625-5620 RECEIVED
FEB 20 2008
KCC WICHITA



Hertel Oil Co LLC

Hoffman #3-8

704 E 12th St Hays KS 67601

8 14 17 Ellis KS

Job Ticket: 31495

DST#:1

ATTN: Mike Hertel

Test Start: 2008.01.10 @ 00:36:43

#### **GENERAL INFORMATION:**

Time Tool Opened: 02:29:08

Time Test Ended: 07:45:07

Formation:

Arbuckle

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Ray Schwager

Unit No:

42

Reference Bevations:

2010.00 ft (KB)

2002.00 ft (CF)

KB to GR/CF:

8.00 ft

Interval:

3525.00 ft (KB) To 3625.00 ft (KB) (TVD)

Total Depth:

3625.00 ft (KB) (TVD)

Inside

Hole Diameter:

7.85 inchesHole Condition: Fair

Serial #: 8365

Press@RunDepth:

153.51 psig @

3597.01 ft (KB)

2008.01.10

Capacity: Last Calib.: 7000.00 psig

2008.01.10 2008.01.10 @ 02:26:38

Time Off Btm:

Start Date: Start Time: 2008.01.10 00:36:43

End Date: End Time:

07:45:07

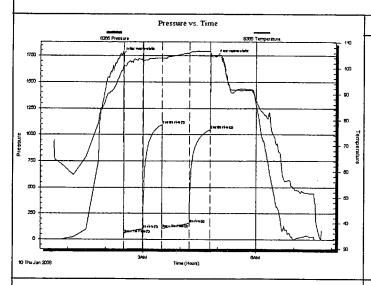
Time On Btm:

2008.01.10 @ 04:57:07

TEST COMMENT: IFPWk bl thru-out 1/2 " to 3 " bl

FFP Wk bl thru-out 1/4 " to 2 3/4 " bl , .

Times 30 30 45 30



PRESSURE SUMMARY					
Time	Pressure	Temp	Annotation	7	
(Min.)	(psig)	(deg F)			
0	1759.70	99.02	Initial Hydro-static		
3	54.39	100.75	Open To Flow (1)	1	
33	101.48	103.01	Shut-In(1)		
. 64	1092.92	103.94	End Shut-In(1)		
64	105.90	103.42	Open To Flow (2)		
108	153.51	106.04	Shut-In(2)		
141	1047.19	106.68	End Shut-In(2)		
151	1741.35	105.17	Final Hydro-static		
		,	1		

#### Recovery

Length (ft)	Description	Volume (bbl)			
220.00	SOCM 2%O 98%M	2.81			

Gas Rates

Choke (inches) Pressure (psig)

Trilobite Testing, Inc.

Ref. No: 31495

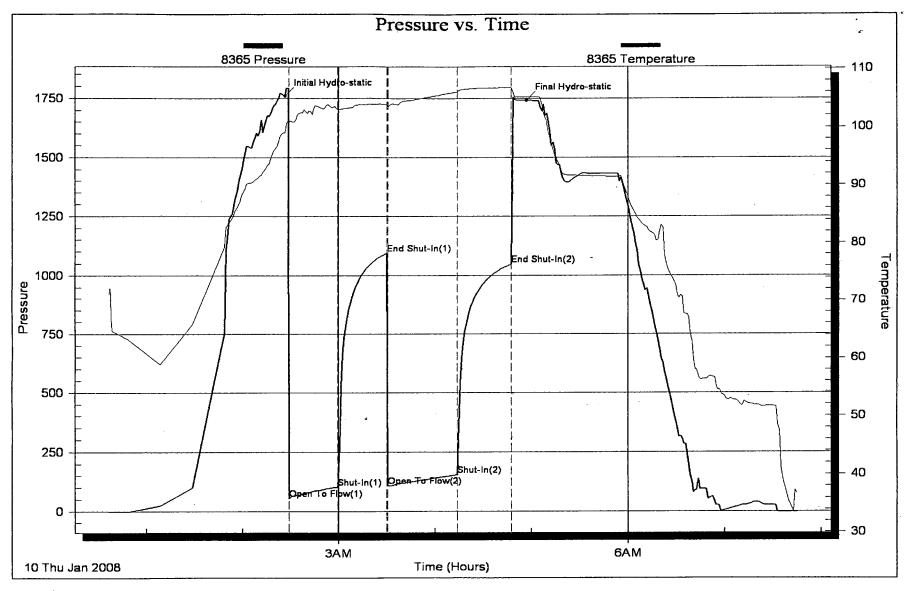
Printed: 2008.01.14 @ 10:08:46 Page 2

Inside

Hertel Oil Co LLC

8 14 17 ⊟lis KS

DST Test Number: 1





Prepared For:

**Hertel Oil Co LLC** 

704 E 12th St Hays KS 67601

ATTN: Mike Hertel

# 8 14 17 Ellis KS

#### Hoffman #3-8

Start Date:

2008.01.10 @ 14:53:49

End Date:

2008.01.10 @ 20:20:13

Job Ticket #: 31496

DST#: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



Hertel Oil Co LLC

Hoffman #3-8

704 E 12th St Hays KS 67601 8 14 17 Ellis KS

Job Ticket: 31496

DST#: 2

ATTN: Mike Hertel

Test Start: 2008.01.10 @ 14:53:49

#### **GENERAL INFORMATION:**

Time Tool Opened: 16:21:44

Time Test Ended: 20:20:13

Formation:

Arbuckie

Deviated:

Interval:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole

Tester:

Ray Schwager

Unit No:

Reference Bevations:

2010.00 ft (KB)

2002.00 ft (CF)

Total Depth:

3605.00 ft (KB) To 3635.00 ft (KB) (TVD) 3635.00 ft (KB) (TVD)

Hole Diameter:

7.85 inches Hole Condition: Fair

KB to GR/CF:

8.00 ft

Serial #: 8371

Press@RunDepth:

Outside

291.16 psig @ 2008.01.10

3606.02 ft (KB) End Date:

Capacity: 2008.01.10 Last Calib.:

7000.00 psig

Start Date: Start Time:

14:53:49

End Time:

20:20:13

Time On Btm:

2008.01.10 2008.01.10 @ 16:19:14

Time Off Btm:

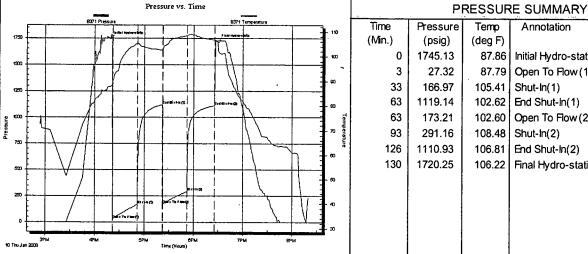
2008.01.10 @ 18:29:14

TEST COMMENT: IFP Strg bl in 8 min

FFP Strg bl in 15 min

ISIP No bi

FSIP Surface bl bk Time 30 30 30 30



Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		
0	1745.13	87.86	Initial Hydro-static	
3	27.32	87.79	Open To Flow(1)	1
33	166.97	105.41	Shut-In(1)	
63	1119.14	102.62	End Shut-In(1)	
63	173.21	102.60	Open To Flow (2)	
93	291.16	108.48	Shut-In(2)	
126	1110.93	106.81	End Shut-In(2)	
130	1720.25	106.22	Final Hydro-static	
			1	

#### Recovery

Description	Volume (bbi)
160.00 MW 15%M 85%W w/show of Oil	
Water RW .5 @ 55F	5.89
	MW 15%M 85%W w/show of Oil

#### Gas Rates

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

Trilobite Testing, Inc.

Ref. No: 31496

Printed: 2008.01.14 @ 10:09:29 Page 2



**TOOL DIAGRAM** 

Hertel Oil Co LLC

Hoffman #3-8 8 14 17 Ellis KS

704 E 12th St Hays KS 67601

Job Ticket: 31496

DST#:2

ATTN: Mike Hertel

Test Start: 2008.01.10 @ 14:53:49

**Tool Information** 

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 3568.00 ft Diameter:

0.00 ft Diameter: 30.00 ft Diameter:

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

Total Volume:

50.05 bbl 0.00 bbl 0.15 bbl

50.20 bbl

Tool Weight: Weight set on Packer: 25000.00 lb

2200.00 lb

Tool Chased

Weight to Pull Loose: 60000.00 lb 0.00 ft

String Weight: Initial

48000.00 lb

Final 49000.00 lb

Drill Pipe Above KB:

Drill Collar:

14.00 ft Depth to Top Packer: 3605.00 ft

Length:

Depth to Bottom Packer: Interval between Packers:

ft 30.02 ft

Tool Length: Number of Packers: 51.02 ft

Diameter:

6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3585.00	1, <del>1</del> , 11, 11, 11, 11, 11, 11, 11, 11, 11,	
Shut In Tool	5.00			3590.00		
Hydraulic tool	5.00			3595.00		
Packer	5.00			3600.00	, 21.00	Bottom Of Top Packer
Packer	5.00			3605.00		
Stubb	1.00			3606.00		
Recorder	0.01	8365	Inside	3606.01		•
Recorder	0.01	8371	Outside	3606.02		
Perforations	26.00			3632.02	•	
Bulinose	3.00			3635.02	30.02	Bottom Packers & Anchor
Total Tool Length	· 51 Å2					

Total Tool Length:

Trilobite Testing, Inc.

Ref. No: 31496

Printed: 2008.01.14 @ 10:09:30 Page 3



FLUID SUMMARY

Hertel Oil Co LLC

Hoffman #3-8

704 E 12th St Hays KS 67601

8 14 17 Ellis KS Job Ticket: 31496

DST#:2

ATTN: Mike Hertel

Test Start: 2008.01.10 @ 14:53:49

**Mud and Cushion Information** 

Mud Type: Gel Chem Mud Weight:

Viscosity:

9.00 lb/gal

50.00 sec/qt 8.75 in<sup>3</sup>

Water Loss: Resistivity:

ohm.m

Salinity:

2.00 inches

Cushion Type:

**Cushion Length:** 

**Cushion Volume:** 

Gas Cushion Type:

Gas Cushion Pressure:

ft bbl Water Salinity:

Oil API:

deg API 17000 ppm

2600.00 ppm

psig

Filter Cake:

**Recovery Information** 

Recovery Table

Length ft	Description	Volume bbl
160.00	MW 15%M 85%W w/show of Oil	1.971
420.00	Water RW .5 @ 55F	5,891

Total Length:

580.00 ft

Total Volume:

7.862 bbl

Num Fluid Samples: 0

Num Gas Bombs: Laboratory Location: Serial #:

Laboratory Name:

Recovery Comments:

