



KANSAS CORPORATION COMMISSION 1070314  
OIL & GAS CONSERVATION DIVISION

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 # 31439  
Name: Kinney Oil Company  
Address 1: 1401 17TH ST STE 870  
Address 2: \_\_\_\_\_  
City: DENVER State: CO Zip: 80202 + 1246  
Contact Person: Jeremy Kinney  
Phone: (303) 295-1770  
CONTRACTOR: License # 30141  
Name: Summit Drilling Company  
Wellsite Geologist: Kevin Bailey  
Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well     Re-Entry     Workover
- Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>3/24/2011</u>	<u>4/6/2011</u>	<u>4/6/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-131-20220-00-00

Spot Description: \_\_\_\_\_  
NW NW SW SW Sec. 34 Twp. 1 S. R. 14  East  West  
1050 Feet from  North /  South Line of Section  
100 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Nemaha  
Lease Name: Harter Well #: 1-34

Field Name: \_\_\_\_\_  
Producing Formation: D&A

Elevation: Ground: 1330 Kelly Bushing: 1340

Total Depth: 3995 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 273 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 500 ppm Fluid volume: 2877 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. 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

- Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 12/29/2011



1070314

Operator Name: Kinney Oil Company Lease Name: Harter Well #: 1-34  
 Sec. 34 Twp. 1 S. R. 14  East  West County: Nemaha

**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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Attached</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	273	Class A	160	2%gel & 3%CC

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD	-			
___ Plug Off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Kinney Oil Company
Well Name	Hartter 1-34
Doc ID	1070314

All Electric Logs Run

Sonic
Dual Induction
Micro
Neutron Density

Form	ACO1 - Well Completion
Operator	Kinney Oil Company
Well Name	Hartter 1-34
Doc ID	1070314

Tops

Heebner	1150	190
Lansing	1291	49
BKC	1628	-288
Cherokee	1776	-436
Mississippian	2498	-1158
Kinderhook	2643	-1303
Hunton	2847	-1507
Maquoketa	3529	-2189
Viola	3582	-2242
Simpson	3782	-2442
Simpson SS	3884	-2544
Arbuckle	3930	-2590
Lamont SS	3945	-2605
PreCambrian	3978	-2638
TD	3995	-2655



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

MAIN OFFICE  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
FAX 620/431-0012

INVOICE

Invoice # 240192

Invoice Date: 03/29/2011 Terms: 0/0/30,n/30

Page 1

KINNEY OIL COMPANY  
1401 17TH ST, SUITE 870  
DENVER CO 80202  
(303)295-1770

HARTTER 1-34  
30327  
34-1S-14E  
KS

Part Number	Description	Qty	Unit Price	Total
11048	CLASS "A" CEMENT (SALE)	160.00	14.2500	2280.00
1102	CALCIUM CHLORIDE (50#)	500.00	.7000	350.00
1118B	PREMIUM GEL / BENTONITE	300.00	.2000	60.00
1107	FLO-SEAL (25#)	40.00	2.2200	88.80
	Description	Hours	Unit Price	Total
485	CEMENT PUMP (SURFACE)	1.00	775.00	775.00
485	EQUIPMENT MILEAGE (ONE WAY)	170.00	4.00	680.00
515	TON MILEAGE DELIVERY	1278.40	1.26	1610.78

7309  
0113100011

V20711

Parts:	2778.80	Freight:	.00	Tax:	202.85	AR	6047.43
Labor:	.00	Misc:	.00	Total:	6047.43		
Sublt:	.00	Supplies:	.00	Change:	.00		

Signed \_\_\_\_\_ Date \_\_\_\_\_



**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 30327

LOCATION Eureka 70

FOREMAN Dan Butler

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT** API # NA

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-24-11	N620	Hartter 1-34	34	1 S	14 E	Nemaha
CUSTOMER <u>Kinney Oil Company</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>1401 17<sup>th</sup> St. Ste 870</u>			<u>485</u>	<u>Alan</u>		
CITY <u>Denver</u>			<u>315</u>	<u>Cliff</u>		
STATE <u>CO</u>						
ZIP CODE <u>80202</u>						

*safety meeting  
AM  
CS*

JOB TYPE Surface 0 HOLE SIZE 12 1/4 HOLE DEPTH 273 KB CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 273' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15<sup>#</sup> SLURRY VOL 38661 WATER gal/sk 6.5 CEMENT LEFT in CASING 20'  
 DISPLACEMENT 16 bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: safety meeting rig up to 8 5/8 casing. Broke circulation with 10 bbls fresh water, mixed 160 sks class A cement w/ 3% cacl<sub>2</sub>, 2% gel, 1/4" flocc/sk @ 15#/gal displace w/ 16 bbls fresh water shut casing in head good. cement return to surface 11 bbls slurry to pit job complete rig down

*Thank you*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401 S	1	PUMP CHARGE	775.00	775.00
5406	170	MILEAGE	4.00	680.00
1104 S	160 sks	Class 'A' Cement	14.25	2280.00
1102	500 <sup>#</sup>	Cacl <sub>2</sub> 3%	.20 <sup>#</sup>	350.00
1118 0	300 <sup>#</sup>	Gel 2%	.20 <sup>#</sup>	60.00
1107	40 <sup>#</sup>	Floccle 1/4"/sk	2.22 <sup>#</sup>	88.80
5407A	7.52 Tons	170 miles Bulk Deliv.	1.26	1610.78
			Sub Total	5844.58
			7.3% SALES TAX	202.85
			ESTIMATED TOTAL	6047.43

Rev'n 3737

240192

AUTHORIZATION DAN COX

TITLE Summit Drly tool pusher

DATE 3-24-11

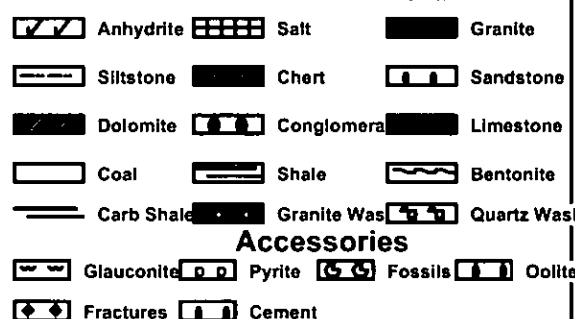
I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

# GeoCertified, LLC

**16221 LEO CIRCLE**  
**LEAVENWORTH, KS 66048**  
**913 544 7527**  
**KEVIN BAILEY**

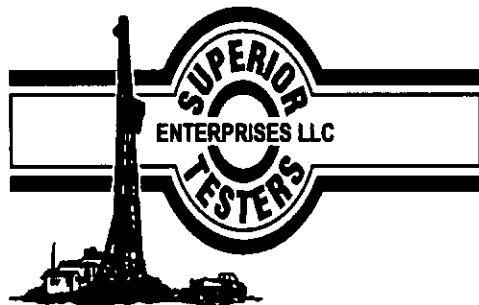
**COMPANY:** KINNEY OIL Company Jeremy Kinney **WELL:** Harterter 1-34  
**FIELD:** Wildcat **COUNTY:** Nemaha **STATE:** KS  
**LOCATION:** 1,050' FSL,100' FWL or NW-NW-SW-SW 34-1S-14E

**Interval Logged** 273 **To:** 3995' **G.L.:** 1330' **K.B:** 1340'  
**Date Logged:** 3/24/11 **To:** 4/6/11 **Spud Date:** 3/24/2011  
**Rig:** SUMMIT Drilling, TP-Dan Cox **Unit No.:** #1  
**Loggers:** Tucker Wireline, Tulsa, OK  
**Api No.:** 15-131-20220-00-00  
**Filename:** Harterter1-34KnyyO.mlw  
**Geologist:** Kevin Bailey

Abbreviations:	Lithology Symbols:	Gas Chromatograph Analysis:			
NB...New Bit CO...Circ Out NR...No Returns TG...Trip Gas WOB...Wt on Bit RPM...Rev/Min SG...Survey Gas DST...Drill Stem Test DS...Directional Survey CG...Connection gas LAT...Logged After Trip PP...Pump Pressure SPM...Strokes/Min DTG...Down Time Gas		HW ----- C1 ----- C2 ----- C3 ----- IC4 ----- NC4 ----- IC5 -----			
Mud Data	Accessories				
WT..Weight PH..Acidity CHL..Chlorides V..Viscosity F..Filtrate SC..Solids Content	Glauconite  Pyrite  Fossils  Oolites Fractures  Cement				
<b>Drilling Rate</b> MIN/FT	Vis Por Tr f P g	% Oil Cut Flu Tr / Tr / p f ppfg 1/2	<b>Lithology</b>	<b>Descriptions/Remarks</b>	<b>Total Gas/Chromatograph</b>

A vertical ruler is positioned in the center of the page, oriented vertically. The ruler has a scale from 0 to 100 centimeters, with major markings every 10 centimeters and minor markings every 1 millimeter. The ruler is used as a scale for the document.





## DRILL STEM TEST REPORT

Prepared For: **KINNEY OIL COMPANY**

1401 17TH ST STE 870 DENVER CO  
80202+1246

ATTN: KEVIN BAILEY

**34-1S-14E NEMAHA**

**HARTTER #1-34**

Start Date: 2011.04.04 @ 14:30:00

End Date: 2011.04.04 @ 23:16:00

Job Ticket #: 15648                      DST #: 2

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2011.04.04 @ 23:42:52

KINNEY OIL COMPANY

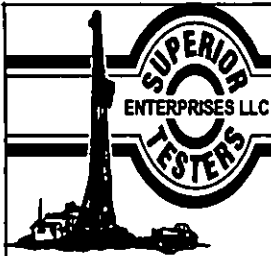
HARTTER #1-34

34-1S-14E NEMAHA

DST # 2

SIMPSON

2011.04.04



# DRILL STEM TEST REPORT

KINNEY OIL COMPANY

HARTTER #1-34

1401 17TH ST STE 870 DENVER CO 80202+1246

34-1S-14E NEMAHA

ATTN: KEVIN BAILEY

Job Ticket: 15648

DST#: 2

Test Start: 2011.04.04 @ 14:30:00

## GENERAL INFORMATION:

Formation: **SIMPSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:30

Time Test Ended: 23:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- GB -

Interval: 3875.00 ft (KB) To 3895.00 ft (KB) (TVD)

Total Depth: 3895.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1350.00 ft (KB)

1340.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8524

Inside

Press@RunDepth: 1224.09 psia @ 3891.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.04

End Date:

2011.04.04

Last Calib.:

2011.04.04

Start Time: 14:30:00

End Time:

23:16:00

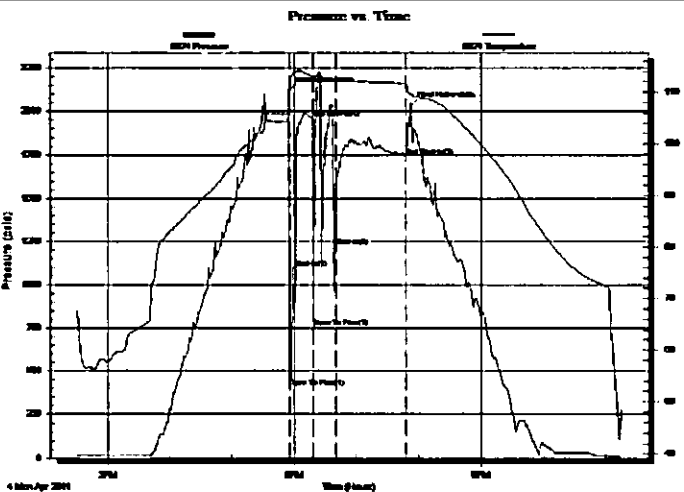
Time On Btm:

2011.04.04 @ 17:55:00

Time Off Btm:

2011.04.04 @ 19:52:30

TEST COMMENT: 5/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1 1/2 INTO WATER IN 5MINUTES  
 15/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:VERY WEAK SURGE DIED OFF  
 60/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

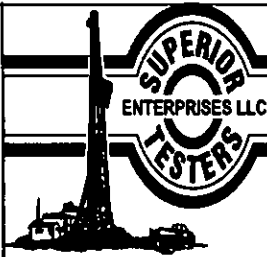
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2120.06	107.50	Initial Hydro-static
1	409.37	109.44	Open To Flow (1)
6	1099.71	113.82	Shut-In(1)
23	1964.04	113.11	End Shut-In(1)
24	754.52	112.45	Open To Flow (2)
46	1224.09	112.30	Shut-In(2)
113	1742.46	111.75	End Shut-In(2)
118	2036.53	109.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MUD	0.91

## Gas Rates

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



# DRILL STEM TEST REPORT

KINNEY OIL COMPANY

HARTTER #1-34

1401 17TH ST STE 870 DENVER CO 80202+1246

34-1S-14E NEMAHA

ATTN: KEVIN BAILEY

Job Ticket: 15648

DST#: 2

Test Start: 2011.04.04 @ 14:30:00

## GENERAL INFORMATION:

Formation: **SIMPSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:55:30

Time Test Ended: 23:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- GB -

Interval: 3875.00 ft (KB) To 3895.00 ft (KB) (TVD)

Total Depth: 3895.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1350.00 ft (KB)

1340.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8525

Outside

Press@RunDepth: 1792.47 psia @ 3892.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.04

End Date:

2011.04.04

Last Calib.: 2011.04.04

Start Time: 14:30:00

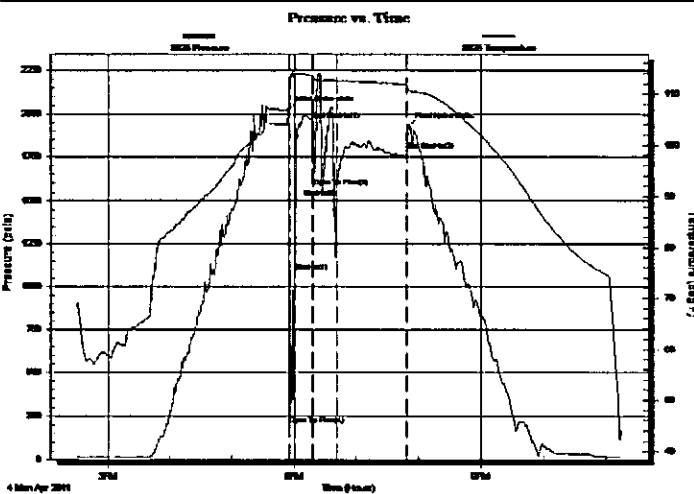
End Time:

23:16:00

Time On Btm: 2011.04.04 @ 17:54:30

Time Off Btm: 2011.04.04 @ 19:50:00

TEST COMMENT: 5/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1 1/2 INTO WATER IN 5MINUTES  
 15/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:VERY WEAK SURGE DIED OFF  
 60/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

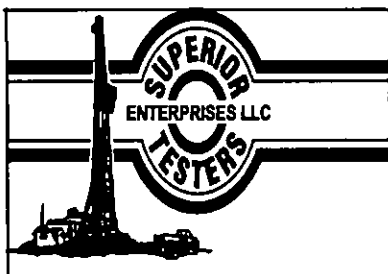
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2020.23	107.03	Initial Hydro-static
1	198.34	109.64	Open To Flow (1)
7	1086.17	113.86	Shut-In(1)
23	1967.14	113.60	End Shut-In(1)
24	1580.32	113.27	Open To Flow (2)
47	1566.64	112.63	Shut-In(2)
114	1792.47	111.85	End Shut-In(2)
116	1929.72	110.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	MUD	0.91

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

KINNEY OIL COMPANY

HARTTER #1-34

1401 17TH ST STE 870 DENVER CO 80202+1246

34-1S-14E NEMAHA

Job Ticket: 15648

DST#: 2

ATTN: KEVIN BAILEY

Test Start: 2011.04.04 @ 14:30:00

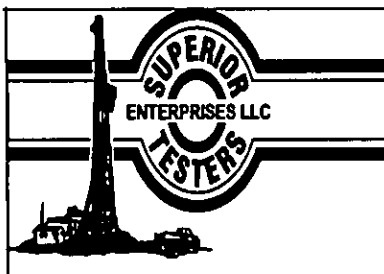
## Tool Information

Drill Pipe:	Length: 3477.00 ft	Diameter: 2.25 inches	Volume: 17.10 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 372.00 ft	Diameter: 3.80 inches	Volume: 5.22 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 22.32 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3875.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: ON LOCATION 11:30AM / PICKED UP TOOL 2:30 PM / TOOL CHASED 8 FEET TO BOTTOM

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3847.00	
Shut-In Tool	5.00			3852.00	
Hydrolic Tool	5.00			3857.00	
Jars	6.00			3863.00	
Safety Joint	2.00			3865.00	
Packer	5.00			3870.00	29.00 Bottom Of Top Packer
Packer	5.00			3875.00	
Perforations	15.00			3890.00	
Recorder	1.00	8524	Inside	3891.00	
Recorder	1.00	8525	Outside	3892.00	
Bullnose	3.00			3895.00	20.00 Bottom Packers & Anchor

**Total Tool Length: 49.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

KINNEY OIL COMPANY

HARTTER #1-34

1401 17TH ST STE 870 DENVER CO 80202+1246

34-1S-14E NEMAHA

Job Ticket: 15648

DST#: 2

ATTN: KEVIN BAILEY

Test Start: 2011.04.04 @ 14:30:00

## Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 42.00 sec/qt  
 Water Loss: 7.60 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 400.00 ppm  
 Filter Cake: 2.00 inches

Cushion Type:  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Gas Cushion Type:  
 Gas Cushion Pressure: psia

Oil API: deg API  
 Water Salinity: ppm

## Recovery Information

Recovery Table

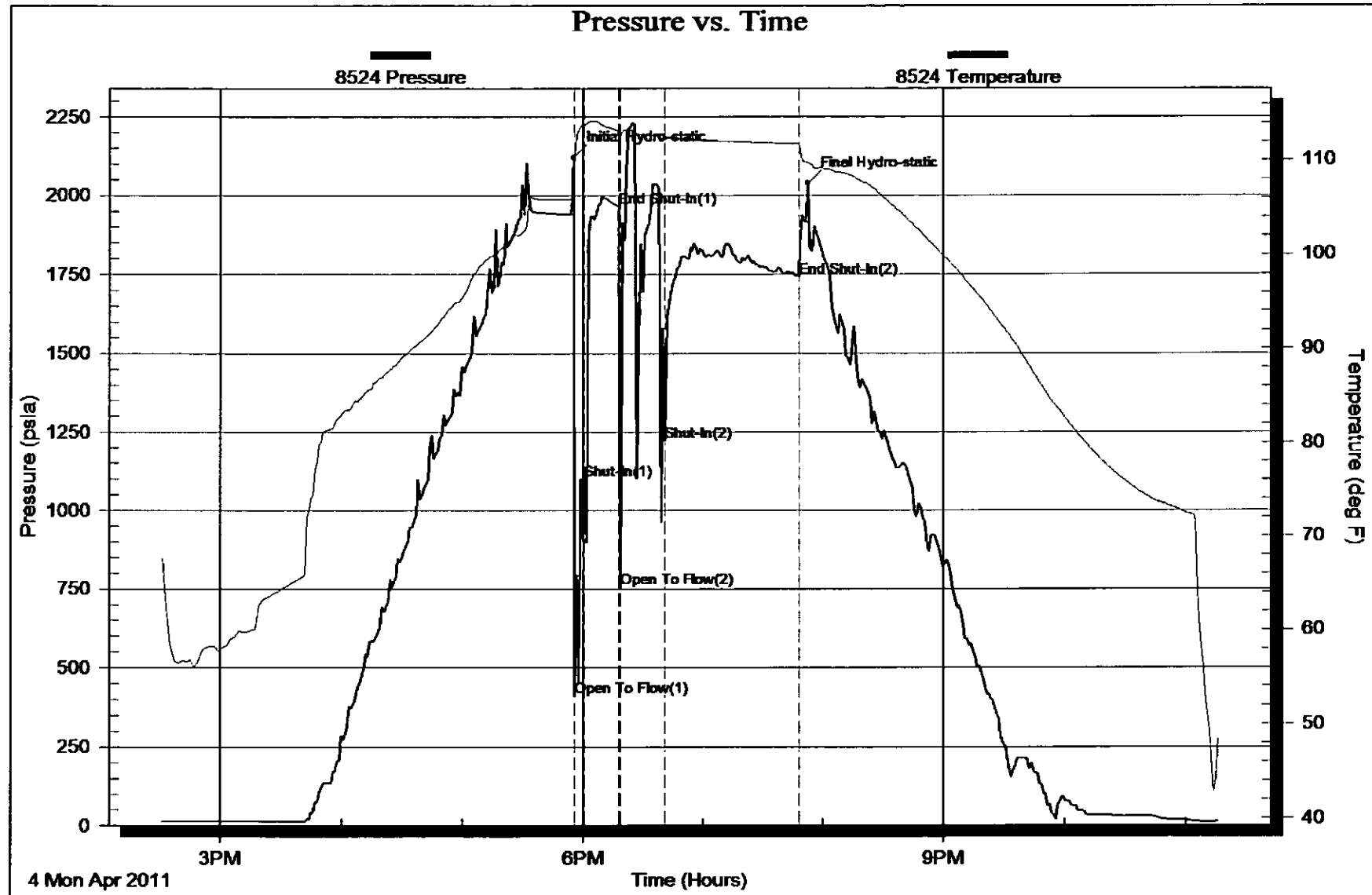
Length ft	Description	Volume bbl
65.00	MUD	0.912

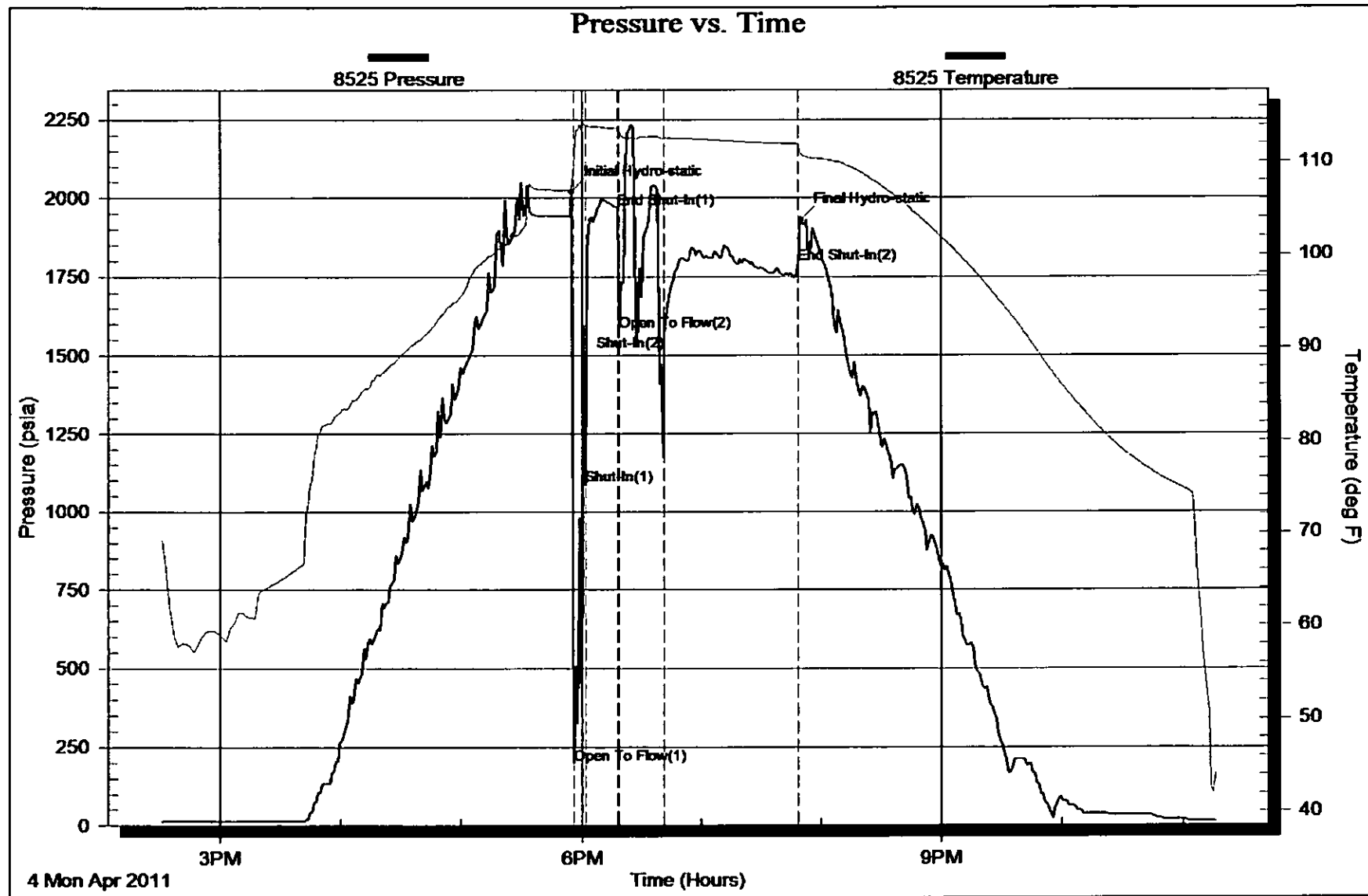
Total Length: 65.00 ft      Total Volume: 0.912 bbl

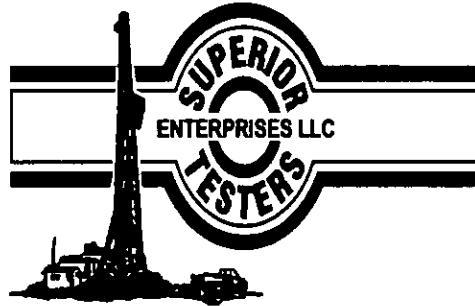
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **KINNEY OIL COMPANY**

1401 17TH ST STE 870 DENVER CO  
80202+1246

ATTN: KEVIN BAILEY

**34-1S-14E NEMAHA**

**HARTTER #1-34**

Start Date: 2011.04.05 @ 11:50:00

End Date: 2011.04.06 @ 00:05:00

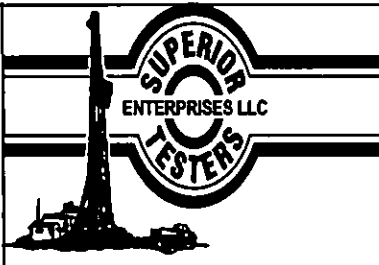
Job Ticket #: 15649                      DST #: 3

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2011.04.06 @ 00:33:44

KINNEY OIL COMPANY      HARTTER #1-34      34-1S-14E NEMAHA      DST # 3      SIMPSON      2011.04.05





# DRILL STEM TEST REPORT

KINNEY OIL COMPANY

HARTTER #1-34

1401 17TH ST STE 870 DENVER CO 80202+1246

34-1S-14E NEMAHA

ATTN: KEVIN BAILEY

Job Ticket: 15649

DST#: 3

Test Start: 2011.04.05 @ 11:50:00

## GENERAL INFORMATION:

Formation: **SIMPSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:38:30

Time Test Ended: 00:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-GB-530

Interval: 3875.00 ft (KB) To 3905.00 ft (KB) (TVD)

Reference Elevations: 1350.00 ft (KB)

Total Depth: 3905.00 ft (KB) (TVD)

1340.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8524

Inside

Press@RunDepth: 282.47 psia @ 3901.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.05

End Date:

2011.04.06

Last Calib.: 2011.04.06

Start Time: 11:50:00

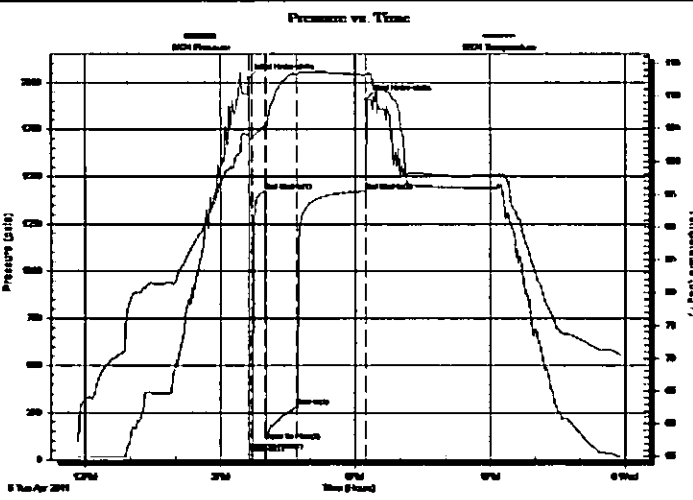
End Time:

00:05:00

Time On Btm: 2011.04.05 @ 15:38:00

Time Off Btm: 2011.04.05 @ 18:15:30

TEST COMMENT: 5/INITIAL OPEN:WEAK BUILDING BLOW BUILT 3 1/2 INCHES INTO WATER IN 5 MINUTES  
 15/INITIAL SHUT IN:NO BLOW BACK  
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 34 MINUTES  
 90/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

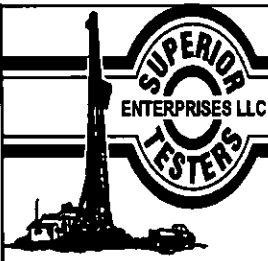
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2023.06	103.91	Initial Hydro-static
1	49.43	103.47	Open To Flow (1)
5	77.78	103.42	Shut-In(1)
23	1426.62	105.59	End Shut-In(1)
23	101.49	105.23	Open To Flow (2)
65	282.47	113.21	Shut-In(2)
157	1425.10	113.26	End Shut-In(2)
158	1913.09	113.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
93.00	WATERY MUD 90%MUD 10%WATER	0.46
403.00	MUDDY WATER 3-%MUD 70%WATER	3.11
0.00	CHLORIDES 10,000	0.00
0.00	RESISTIVITY .35 @76 DEGREES	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

KINNEY OIL COMPANY

HARTTER #1-34

1401 17TH ST STE 870 DENVER CO 80202+1246

34-1S-14E NEMAHA

ATTN: KEVIN BAILEY

Job Ticket: 15649

DST#: 3

Test Start: 2011.04.05 @ 11:50:00

## GENERAL INFORMATION:

Formation: **SIMPSON**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:38:30

Time Test Ended: 00:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-GB-530

Interval: 3875.00 ft (KB) To 3905.00 ft (KB) (TVD)

Total Depth: 3905.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1350.00 ft (KB)

1340.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8525

Outside

Press@RunDepth: 1425.68 psia @ 3902.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.05

End Date:

2011.04.06

Last Calib.: 2011.04.06

Start Time: 11:50:00

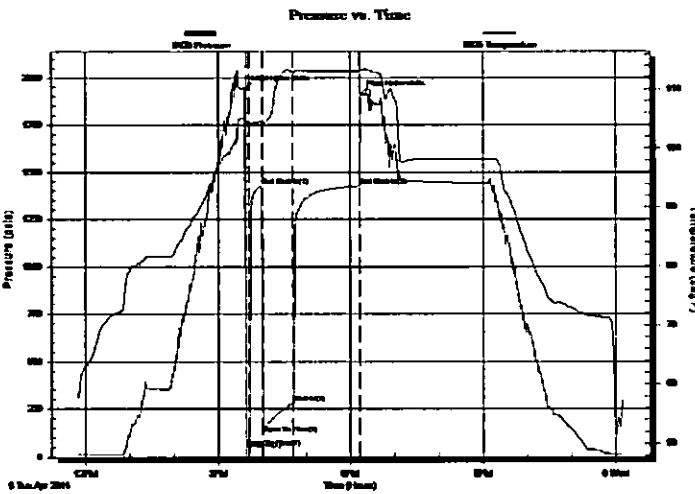
End Time:

00:10:00

Time On Btm: 2011.04.05 @ 15:37:00

Time Off Btm: 2011.04.05 @ 18:15:00

TEST COMMENT: 5/INITIAL OPEN:WEAK BUILDING BLOW BUILT 3 1/2 INCHES INTO WATER IN 5 MINUTES  
 15/INITIAL SHUT IN:NO BLOW BACK  
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 34 MINUTES  
 90/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

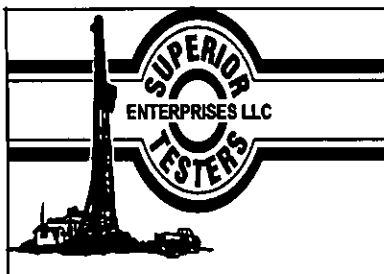
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1937.38	104.89	Initial Hydro-static
1	47.27	103.91	Open To Flow (1)
6	82.80	104.09	Shut-In(1)
23	1426.80	104.64	End Shut-In(1)
24	122.04	104.33	Open To Flow (2)
65	282.69	112.81	Shut-In(2)
157	1425.68	113.08	End Shut-In(2)
158	1913.96	113.22	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
93.00	WATERY MUD 90%MUD 10%WATER	0.46
403.00	MUDDY WATER 3-%MUD 70%WATER	3.11
0.00	CHLORIDES 10,000	0.00
0.00	RESISTIVITY .35 @76 DEGREES	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

KINNEY OIL COMPANY

HARTTER #1-34

1401 17TH ST STE 870 DENVER CO 80202+1246

34-1S-14E NEMAHA

Job Ticket: 15649

DST#: 3

ATTN: KEVIN BAILEY

Test Start: 2011.04.05 @ 11:50:00

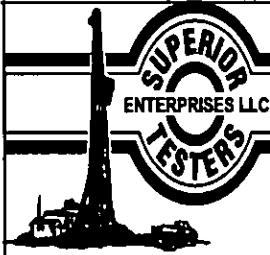
## Tool Information

Drill Pipe:	Length: 3505.00 ft	Diameter: 3.80 inches	Volume: 49.17 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 372.00 ft	Diameter: 2.25 inches	Volume: 1.83 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3875.00 ft			Final 50500.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3847.00	
Shut-in Tool	5.00			3852.00	
Hydrolic Tool	5.00			3857.00	
Jars	6.00			3863.00	
Safety Joint	2.00			3865.00	
Packer	5.00			3870.00	29.00 Bottom Of Top Packer
Packer	5.00			3875.00	
Perforations	25.00			3900.00	
Recorder	1.00	8524	Inside	3901.00	
Recorder	1.00	8525	Outside	3902.00	
Bullnose	3.00			3905.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

KINNEY OIL COMPANY

HARTTER #1-34

1401 17TH ST STE 870 DENVER CO 80202+1246

34-1S-14E NEMAHA

Job Ticket: 15649

DST#: 3

ATTN: KEVIN BAILEY

Test Start: 2011.04.05 @ 11:50:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 67.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 500.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	WATERY MUD 90%MUD 10%WATER	0.457
403.00	MUDDY WATER 3-%MUD 70%WATER	3.111
0.00	CHLORIDES 10,000	0.000
0.00	RESISTIVITY .35 @76 DEGREES	0.000

Total Length: 496.00 ft      Total Volume: 3.568 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: CHLORIDES 10,000

RESISTIVITY .35 @76 DEGREES

