1070314

KANSAS CORPORATION COMMISSION
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:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [ ] Oil
- [ ] WSW
- [ ] SWD
- [ ] SIOW
- [ ] Gas
- [x] 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 #:

3/24/2011	4/6/2011	4/6/2011
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 [x] East [ ] West
1050 Feet from [ ] North / [x] South Line of Section
100 Feet from [ ] East / [x] West Line of Section

Footages Calculated from Nearest Outside Section Corner:
[ ] NE [ ] NW [ ] SE [x] SW

County: Nemaha
Lease Name: Hartter 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 [x] 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:**
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [x] **I** [ ] **II** [ ] **III** **Approved by:** Deanna Garrisor **Date:** 12/29/2011

Side Two

1070314

Operator Name: Kinney Oil Company Lease Name: Hartter 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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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 *(Amount and Kind of Material Used)*	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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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

Name	Top	Datum
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
1104S	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
01131 00011

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	NSNO	Hartter 1-34	34	1S	14E	Nemaha

CUSTOMER: Kinney Oil Company
MAILING ADDRESS: 1401 17th st. Ste 870
CITY: Denver | STATE: CO | ZIP CODE: 80202

Safety Meeting AM CS

TRUCK #	DRIVER	TRUCK #	DRIVER
485	Alan		
515	Cliff		

JOB TYPE surface O | HOLE SIZE 12¼ | HOLE DEPTH 273' KB | CASING SIZE & WEIGHT 8⅝
CASING DEPTH 273' | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 15# | SLURRY VOL 38 bbl | WATER gal/sk 6.5 | CEMENT LEFT in CASING 20'
DISPLACEMENT 16 bbl | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: safety meeting rig up to 8⅝ Casing Broke circulation with 10 bbls Fresh water, mixed 160 sks class A cement w/ 3% Cacl2, 2% Gel, ¼# Flocele/sk @ 15#/gal displace w/16 bbls Fresh water shut casing in had good cement return to surface 11 bbls slurry to pit job complete rig down

Thank you

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	775.00	775.00
5406	170	MILEAGE	4.00	680.00
1104S	160 sks	Class "A" Cement	14.25	2280.00
1102	500#	Cacl2 3%	.70#	350.00
1118 A	300#	Gel 2%	.20#	60.00
1107	40#	Flocele ¼#/sk	2.22#	88.80
5407A	7.52 Tons	170 miles Bulk Delv.	1.26	1610.78
			Sub Total	5844.58
		7.3%	SALES TAX	202.85
			ESTIMATED TOTAL	6047.43

Ravin 3737

240192

AUTHORIZTION Dan Cox TITLE Summit Drlg 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.

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

DRILL STEM TEST REPORT

KINNEY OIL COMPANY

1401 17TH ST STE 870 DENVER CO 80202+1246

ATTN: KEVIN BAILEY

HARTTER #1-34

34-1S-14E NEMAHA

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 -

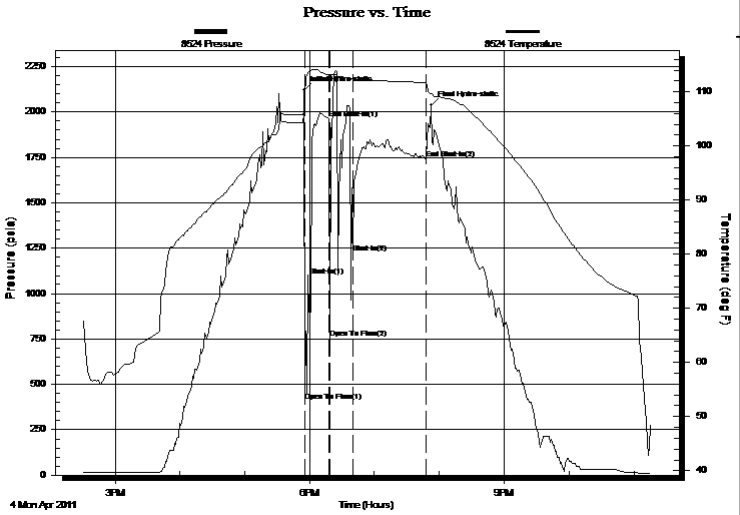
Interval: 3875.00 ft (KB) To 3895.00 ft (KB) (TVD)
Total Depth: 3895.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

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

1401 17TH ST STE 870 DENVER CO 80202+1246

ATTN: KEVIN BAILEY

HARTTER #1-34

34-1S-14E NEMAHA

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 -

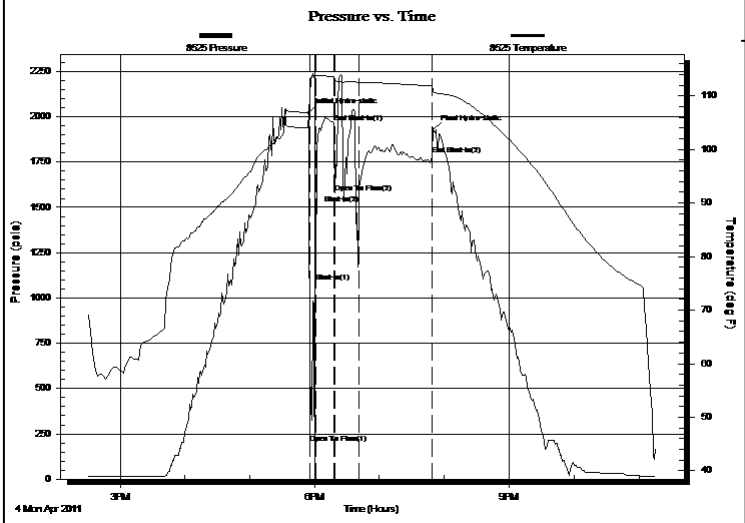
Interval: 3875.00 ft (KB) To 3895.00 ft (KB) (TVD)
Total Depth: 3895.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

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

1401 17TH ST STE 870 DENVER CO 80202+1246

ATTN: KEVIN BAILEY

HARTTER #1-34

34-1S-14E NEMAHA

Job Ticket: 15648 **DST#: 2**

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
						Total Volume:	22.32	bbl	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

1401 17TH ST STE 870 DENVER CO 80202+1246

ATTN: KEVIN BAILEY

HARTTER #1-34

34-1S-14E NEMAHA

Job Ticket: 15648 **DST#: 2**

Test Start: 2011.04.04 @ 14:30:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	42.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	400.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

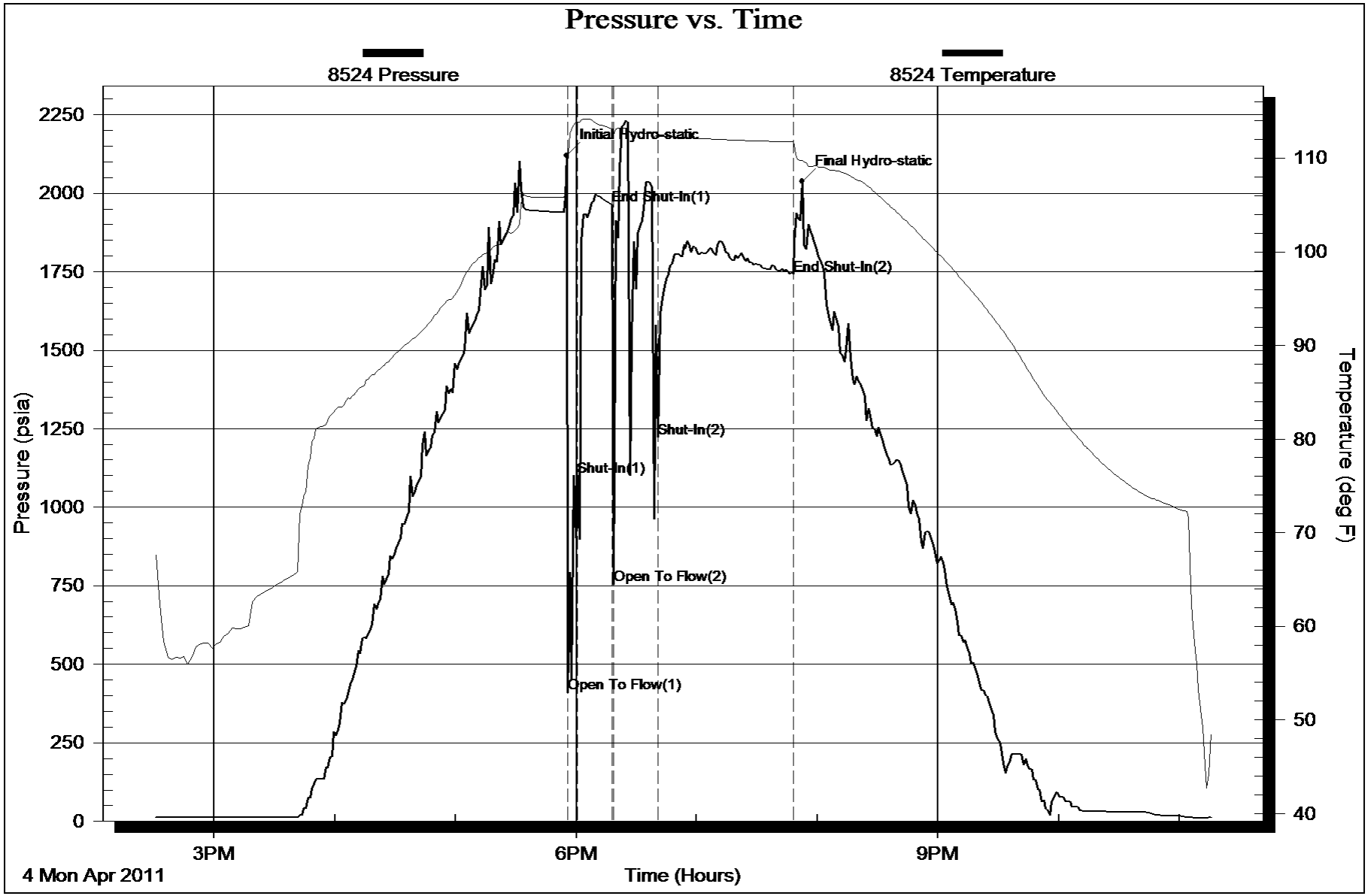
Length ft	Description	Volume bbl
65.00	MUD	0.912

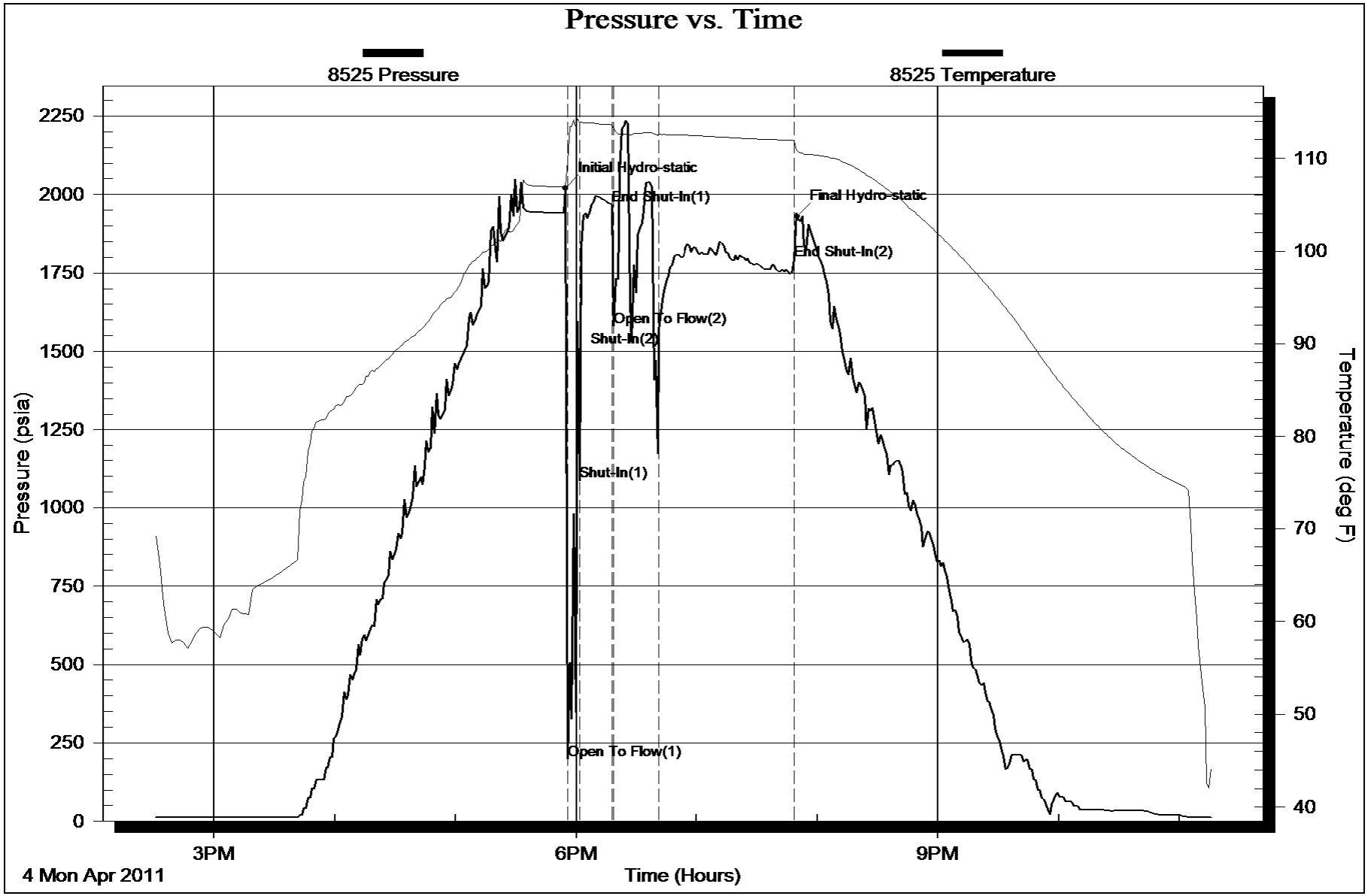
Total Length: 65.00 ft Total Volume: 0.912 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
8524 Pressure
8524 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure (psia)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
3PM
6PM
9PM
4 Mon Apr 2011
Time (Hours)


Pressure vs. Time
8525 Pressure
8525 Temperature
Initial Hydro-static
End Shut-In(1)
Final Hydro-static
End Shut-In(2)
Open To Flow(2)
Shut-In(2)
Shut-In(1)
Open To Flow(1)
Pressure (psia)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
40
3PM
6PM
9PM
4 Mon Apr 2011
Time (Hours)

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

1401 17TH ST STE 870 DENVER CO 80202+1246

ATTN: KEVIN BAILEY

HARTTER #1-34

34-1S-14E NEMAHA

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

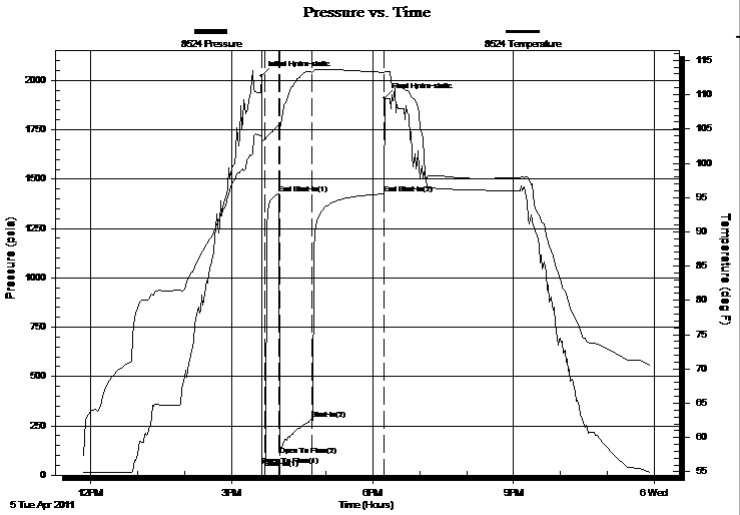
Interval: 3875.00 ft (KB) To 3905.00 ft (KB) (TVD)
Total Depth: 3905.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1350.00 ft (KB)
1340.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 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

1401 17TH ST STE 870 DENVER CO 80202+1246

ATTN: KEVIN BAILEY

HARTTER #1-34

34-1S-14E NEMAHA

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

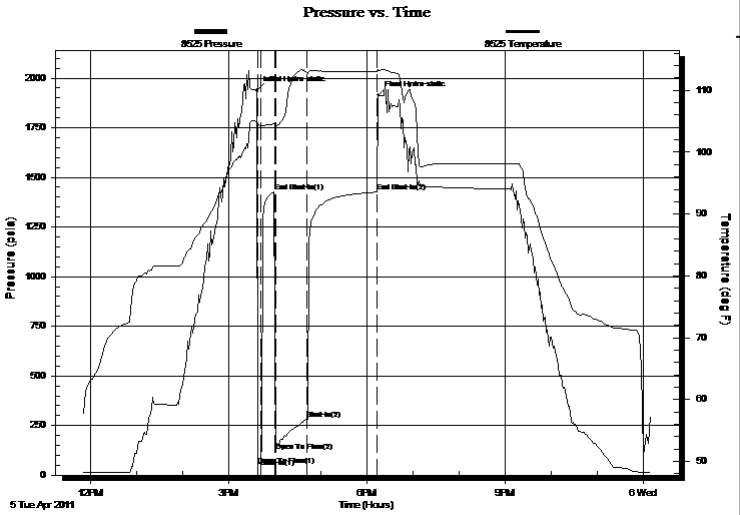
Interval: 3875.00 ft (KB) To 3905.00 ft (KB) (TVD)
Total Depth: 3905.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

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

1401 17TH ST STE 870 DENVER CO 80202+1246

ATTN: KEVIN BAILEY

HARTTER #1-34

34-1S-14E NEMAHA

Job Ticket: 15649 **DST#: 3**

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
						Total Volume:	51.00	bbl	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

1401 17TH ST STE 870 DENVER CO 80202+1246

ATTN: KEVIN BAILEY

HARTTER #1-34

34-1S-14E NEMAHA

Job Ticket: 15649 **DST#: 3**

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 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	500.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

Recovery Table

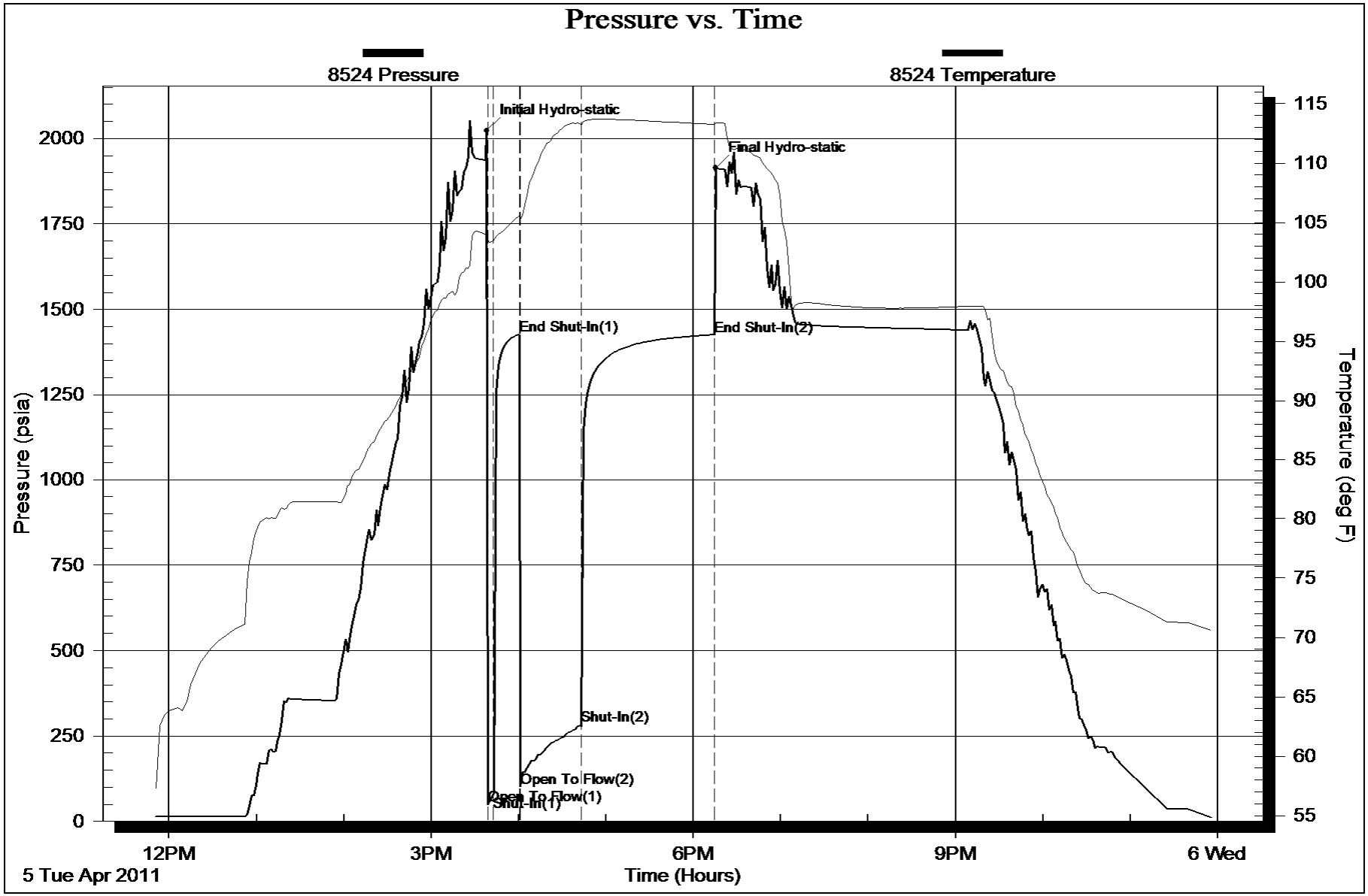
Length ft	Description	Volume bbl
93.00	WATERY MUD 90%MUD 10%WATER	0.457
403.00	MUDDY WATER 3-%MUD 70%WATER	3.111
0.00	CHLORIDES 10,000	0.000
0.00	RESISTIVITY .35 @76 DEGREES	0.000

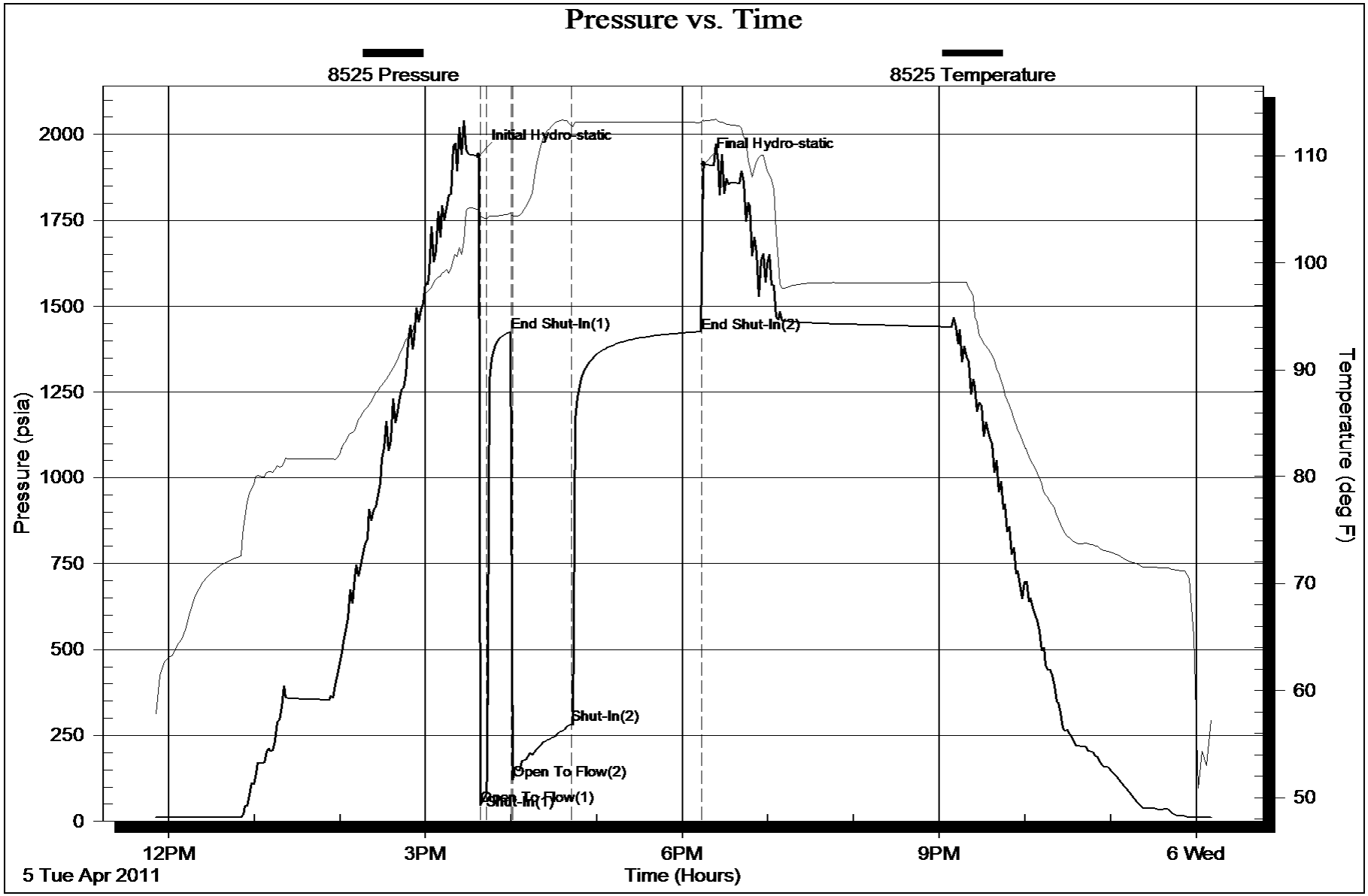
Total Length: 496.00 ft Total Volume: 3.568 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: CHLORIDES 10,000
RESISTIVITY .35 @76 DEGREES


Pressure vs. Time
8524 Pressure
8524 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(2)
Open To Flow(1)
Shut-In(1)
Pressure (psia)
Temperature (deg F)
2000
1750
1500
1250
1000
750
500
250
0
115
110
105
100
95
90
85
80
75
70
65
60
55
12PM
3PM
6PM
9PM
6 Wed
5 Tue Apr 2011
Time (Hours)


Pressure vs. Time
8525 Pressure
8525 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(2)
Open To Flow(1)
Shut-In(1)
Pressure (psia)
Temperature (deg F)
2000
1750
1500
1250
1000
750
500
250
0
110
100
90
80
70
60
50
12PM
3PM
6PM
9PM
6 Wed
5 Tue Apr 2011
Time (Hours)

GeoCertified, LLC

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

COMPANY: KINNEY OIL Company Jeremy Kinney **WELL:** Hartter 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: Hartter1-34KnnyO.mlw
Geologist: Kevin Bailey

Abbreviations:

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

Mud Data

WT..Weight
PH..Acidity
CHL..Chlorides
V..Viscosity
F..Filtrate
SC..Solids Content

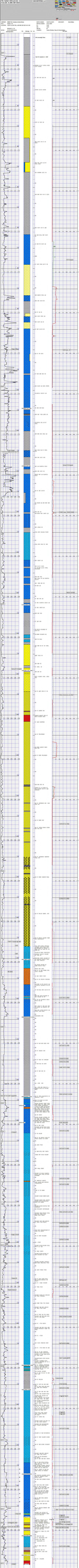
Lithology Symbols:

Anhydrite, Salt, Granite, Siltstone, Chert, Sandstone, Dolomite, Conglomerate, Limestone, Coal, Shale, Bentonite, Carb Shale, Granite Wash, Quartz Wash

Accessories

Glauconite, Pyrite, Fossils, Oolites, Fractures, Cement

Gas Chromatograph Analysis:

HW
C1
C2
C3
IC4
NC4
IC5

Drilling Rate MIN/FT	Vis Por Tr / p f g	Lithology	% Oil Flu Tr / p f	Cut Tr / gpfg	Descriptions/Remarks	Total Gas/Chromatograph