

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL 8-11-11

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 # 4767
Name: Ritchie Exploration, Inc.
Address 1: P.O. Box 783188
Address 2: _____
City: Wichita State: KS Zip: 67278 + 3188
Contact Person: John Niemberger
Phone: (316) 691-9500
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Pat Deenihan
Purchaser: NCRA

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 #: _____

4/14/11	4/26/11	4/26/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 063-21902-00-00
Spot Description: 10' S & 5' E of
W/2 SW SW Sec. 21 Twp. 13 S. R. 31 East West
650 Feet from North / South Line of Section
335 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gove
Lease Name: Hess 21C Well #: 1
Field Name: _____
Producing Formation: LKC
Elevation: Ground: 2868 Kelly Bushing: 2878
Total Depth: 4622 Plug Back Total Depth: 4588
Amount of Surface Pipe Set and Cemented at: 225 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2310 Feet
If Alternate II completion, cement circulated from: surface
feet depth to: 2310 w/ 325 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 16000 ppm Fluid volume: 880 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. CONFIDENTIAL East West
County: _____ Permit #: AUG 04 2012

KCC

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: _____
Title: Production Manager Date: 8/3/11

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 8/04/11 - 8/04/12
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: MJ Date: 8/11/11
RECEIVED
AUG 04 2011
KCC WICHITA

Operator Name: Ritchie Exploration, Inc. Lease Name: Hess 21C Well #: 1
 Sec. 21 Twp. 13 S. R. 31 East West County: Gove

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: Dual Induction Log Compensated Density/Neutron Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum SEE 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	12-1/4	8-5/8	23	225	common	175	3% cc, 2% gel
Production	7-7/8	5-1/2	15.5	4616	ASC	200	10% salt, 2% gel & 56%z galconite

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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
4	4146.5'-4152.5', 4121.5'-4125.5', 4105'-4108', 4100'-4103' (5/9/11)	500 gallons 15% NE (5/11/11)	

TUBING RECORD: Size: <u>2-7/8"</u> Set At: <u>4564'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>5/16/11</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u>CONFIDENTIAL</u>	
Estimated Production Per 24 Hours	Oil Bbls. <u>218</u>	Gas Mcf <u>8</u>	Water Bbls. <u>8</u> Gas-Oil Ratio <u>40.3</u> Gravity <u>40.3</u>

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

RECEIVED
AUG 04 2011
KCC WICHITA



#1 Hess 21C

650' FSL & 335' FWL

10' S & 5' E of W/2 SW SW Section 21-13S-31W

Gove County, Kansas

API# 15-063-21902-0000

Elevation: 2868' GL: 2878' KB

<u>Sample Tops</u>			<u>Ref. Well</u>
Anhydrite	2354'	+524	-1
B/Anhydrite	2378'	+500	-1
Heebner	3861'	-983	+6
Lansing	3903'	-1025	+11
Muncie Shale	4048'	-1172	+4
Stark Shale	4142'	-1264	+7
Hush.	4176'	-1298	+9
BKC	4216'	-1338	+5
Altamont	4268'	-1388	+3
Pawnee	4348'	-1470	-3
Myrick Station	4376'	-1498	+4
Fort Scott	4396'	-1518	+1
Cherokee Shale	4422'	-1544	+3
Johnson	4466'	-1588	+1
Mississippian	4508'	-1630	+14
RTD	4622'	-1744	

CONFIDENTIAL

AUG 04 2012

KCC

RECEIVED

AUG 04 2011

P.O. Box 783188
Wichita, Kansas 67278-3188

(316) 691-9500
Fax (316) 691-9550
rei@ritchie-exp.com

8100 E. 22nd St. N., Bldg. 700
Wichita, Kansas 67214-2228

KCC WICHITA

ALLIED CEMENTING CO., LLC. 039921

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

SERVICE POINT: Darley, KS

DATE <u>4/26/11</u>	SEC. <u>21</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>12:30p</u>	JOB START <u>6:00</u>	JOB FINISH <u>2:00</u>
LEASE <u>Hess 21C</u>	WELL# <u>1</u>	LOCATION <u>Darley 115 3E 570 Rd</u>	COUNTY <u>Greene</u>	STATE <u>KS</u>			
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>0 IF NEW</u>			

CONTRACTOR Murphy 14
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 5 1/2 DEPTH 4615.5
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL Port Collar DEPTH 2310
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 22'
 CEMENT LEFT IN CSG. 22'
 PERFS. _____
 DISPLACEMENT 100'
 EQUIPMENT _____

PUMP TRUCK # <u>402</u>	CEMENTER <u>Alan</u>
BULK TRUCK # <u>404</u>	HELPER <u>Wayne</u>
BULK TRUCK # _____	DRIVER <u>Earl</u>
BULK TRUCK # _____	DRIVER _____

OWNER Sam
 CEMENT AMOUNT ORDERED 250 SKS ASC
1070 salt 5# Gisonite 3/4-170 CD 31,
200 gal 500 gal WFR II
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL 5 SKS @ 21.25 106.25
 CHLORIDE _____ @ _____
 ASC 250 SKS @ 19.00 4750.00
 SALT - 20 SKS @ 23.25 465.00
 Gisonite - 1250 lb @ 89 1112.50
 CD 31 176 lb @ 9.35 1645.00
 WFR II 500 gal @ 1.27 635.00
 HANDLING 311 SKS @ 2.25 699.75
 MILEAGE 19 SK/mile 684.70
 TOTAL 10298.30

REMARKS:
mix 500 gal WFR II, mix 30 SKS R.K. 200 SKS
mix 200 SKS down 5th Cas, wood Thrush - 4000
Display Plug w/ 110' 900 PSI UFT and Plug @
1400 PSI. Float held
Thank You
Alan Wayne, Earl

CHARGE TO: Ritchie Exp
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 4615.5
 PUMP TRUCK CHARGE 2405.00
 EXTRA FOOTAGE @ _____
 MILEAGE 20 x 2 @ 7.00 280.00
 MANIFOLD - Head @ 200.00 200.00
 Lito vehicle 20 x 2 @ 4.00 160.00
 TOTAL 3045.00

PLUG & FLOAT EQUIPMENT
 Guide Shoes - 1 178.00
 Insert - 1 @ _____ 158.00
 Baskets - 3 @ 228.00 684.00
 Basket - 1 @ 228.00 228.00
 Levelers - 8 @ 66.00 528.00
 Port Collar @ 126.1 126.10
 Rubber Plug 66.00
 TOTAL 3600.00

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) _____
 TOTAL CHARGES RECEIVED
 IF PAID IN 30 DAYS

PRINTED NAME _____
 SIGNATURE Thomas A. ...
 AUG 04 2012
 KCC

AUG 04 2011
 KCC WICHITA

ALLIED CEMENTING CO., LLC. 043301

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

SERVICE POINT:
Oakley

DATE <u>4-28-11</u>	SEC <u>21</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30am</u>	JOB FINISH <u>2:00pm</u>
LEASE <u>Hess a/c</u>	WELL # <u>1</u>	LOCATION <u>Oakley 1/2 3E 4S</u>		COUNTY <u>Gore</u>	STATE <u>Ks</u>		
OLD OR <input checked="" type="radio"/> NEW (Circle one)				1E N E into			

CONTRACTOR Express well service OWNER Same

TYPE OF JOB port collar

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2 DEPTH _____

TUBING SIZE 2 7/8 DEPTH 2310'

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 13,39 CBL

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

423-281 HELPER Jerry

BULK TRUCK _____

394 DRIVER Earl

BULK TRUCK _____

_____ DRIVER _____

CEMENT	AMOUNT ORDERED	<u>450 sks 60/40</u>	
	<u>6 bags L.H. flo seal</u>	<u>500 hulls or side</u>	
	<u>used 325 sks cement</u>	<u>250# hulls</u>	
COMMON	<u>195 sks</u>	@ <u>16.25</u>	<u>3168.75</u>
POZMIX	<u>130 sks</u>	@ <u>8.50</u>	<u>1105.00</u>
GEL	<u>17 sks</u>	@ <u>21.25</u>	<u>361.25</u>
CHLORIDE	_____	@ _____	_____
ASC	_____	@ _____	_____
	<u>flo seal 81#</u>	@ <u>2.70</u>	<u>218.70</u>
	<u>Hulls 5 sks</u>	@ <u>31.85</u>	<u>159.25</u>
HANDLING	<u>487 sks</u>	@ <u>2.25</u>	<u>1095.75</u>
MILEAGE	<u>11# sk/mile</u>		<u>1071.90</u>
			TOTAL <u>7180.10</u>

REMARKS:

pressure system to 1200' held
open port collar circulate cement
to surface with 325 sks cement
250 hulls, close port collar
pressure to 1200# held. Run 5 ports
Reverse clean

thank you

SERVICE

DEPTH OF JOB	<u>2310'</u>	
PUMP TRUCK CHARGE		<u>2125.00</u>
EXTRA FOOTAGE	@ _____	_____
MILEAGE	<u>20 miles x 2</u>	@ <u>7.00</u> <u>280.00</u>
MANIFOLD	@ _____	_____
<u>Light vehicle</u>	@ <u>4.00</u>	<u>160.00</u>
		TOTAL <u>2565.00</u>

CHARGE TO: Ritchie exploration

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>CONFIDENTIAL</u>	@ _____	_____
<u>AUG 04 2012</u>	@ _____	_____
<u>KCC</u>	@ _____	_____
		TOTAL _____

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature] For Tommy

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____

RECEIVED
 IF PAID IN 30 DAYS
AUG 04 2011
KCC WICHITA



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.18 @ 05:56:00

End Date: 2011.04.18 @ 12:34:00

Job Ticket #: 15991 DST #: 1

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

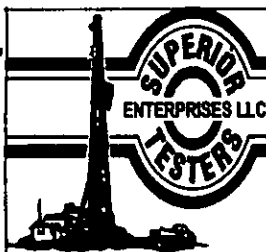
Printed: 2011.04.26 @ 10:36:30

CONFIDENTIAL

AUG 04 2012

KCC

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 1 Lansing "C" Zone 2011.04.18



DRILL STEM TEST REPORT

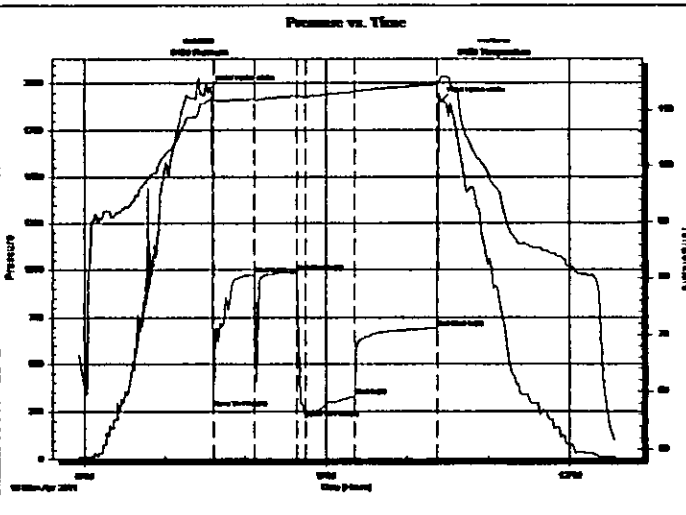
Ritchie Exploration Inc. **#1 Hess 21C**
 8100 East 22nd St North # 700 Wichita Kansas **21/13S31W Gove Co.**
 67278+3188 Job Ticket: 15991 **DST#: 1**
 (P.O.Box 783188) Test Start: 2011.04.18 @ 05:56:00
 ATTN: Pat Deenham

GENERAL INFORMATION:

Formation: **Lansing "C" Zone**
 Deviated: **No Whipstock: ft (KB)** Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **07:38:30** Tester: **Dylan E Ellis**
 Time Test Ended: **12:34:00** Unit No: **3345/Scott City/140**
 Interval: **3922.00 ft (KB) To 3952.00 ft (KB) (TVD)** Reference Elevations: **2878.00 ft (KB)**
 Total Depth: **3952.00 ft (KB) (TVD)** **2868.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **10.00 ft**

Serial #: **8400** Outside
 Press@RunDepth: **332.49 psia @ 3949.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.04.18** End Date: **2011.04.18** Last Calib.: **2011.04.19**
 Start Time: **05:56:10** End Time: **12:34:00** Time On Btrm: **2011.04.18 @ 07:34:00**
 Time Off Btrm: **2011.04.18 @ 10:25:00**

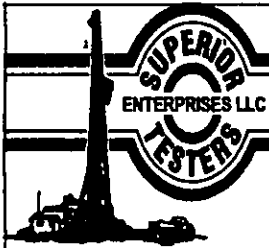
TEST COMMENT: 1ST Opening 30 Minutes weak blow /blow blew 2.50 inches into bucket/than died in 27 minutes
 1ST Shut-In 30 Minutes no blow back
 2ND Opening 45 Minutes weak slow building blow /blow blew bottom of bucket in 22 minutes
 2ND Shut-In 60 Minutes no blow back



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1972.66	112.03	Initial Hydro-static
3	273.35	111.72	Open To Flow (1)
33	974.16	112.04	Shut-In(1)
65	986.14	112.59	End Shut-In(1)
71	216.41	112.44	Open To Flow (2)
107	332.49	113.24	Shut-In(2)
169	693.78	114.52	End Shut-In(2)
171	1907.09	115.80	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
178.66	Slightly Gassy Water cut Mud	0.88
0.00	Gas 10% Water 40% Oil 50%	0.00
267.99	Gas and Water cut Foamy Oil	1.32
0.00	Gas 15% Water 30% Oil 55%	0.00
89.33	Slightly Water cut Gassy Oil	0.44
0.00	Water 4% Oil 96% gas w as mixed	0.00

Gas Rates			
	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

Ritchie Exploration Inc.

#1 Hess 21C

8100 East 22nd St North # 700 Wichita Kansas
67278+3188
(P.O.Box 783188)
ATTN: Pat Deeniham

21/13S31W Gove Co.

Job Ticket: 15991 DST#: 1

Test Start: 2011.04.18 @ 05:56:00

GENERAL INFORMATION:

Formation: Lansing "C" Zone

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:36:30

Time Test Ended: 12:34:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dylan E Ellis

Unit No: 3345/Scott City/140

Interval: 3922.00 ft (KB) To 3952.00 ft (KB) (TVD)

Total Depth: 3952.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2878.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405

Inside

Press@RunDepth: 692.53 psia @ 3948.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.04.18

End Date:

2011.04.18

Last Calib.: 2011.04.19

Start Time: 05:58:01

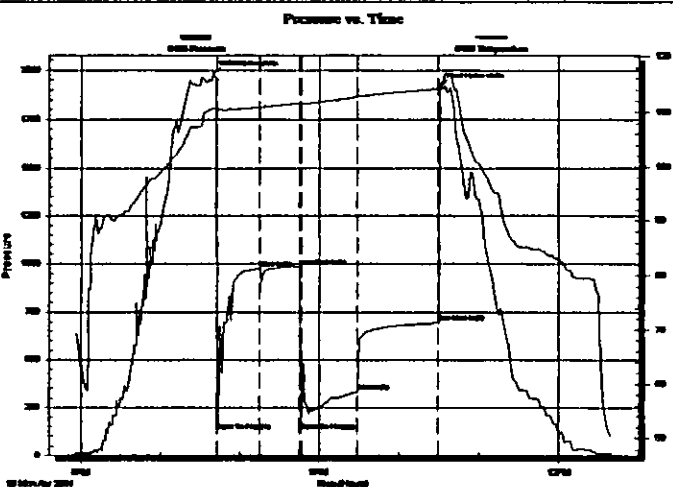
End Time:

12:41:00

Time On Btm: 2011.04.18 @ 07:40:30

Time Off Btm: 2011.04.18 @ 10:31:00

TEST COMMENT: 1ST Opening 30 Minutes weak blow /blow blew 2.50 inches into bucket/than died in 27 minutes
1ST Shut-in 30 Minutes no blow back
2ND Opening 45 Minutes weak slow building blow /blow blew bottom of bucket in 22 minutes
2ND Shut-in 60 Minutes no blow back



PRESSURE SUMMARY

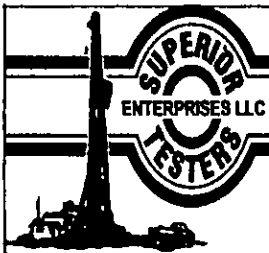
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1979.58	110.70	Initial Hydro-static
3	126.15	110.40	Open To Flow (1)
35	974.37	110.89	Shut-in(1)
65	985.37	111.59	End Shut-in(1)
67	125.81	111.36	Open To Flow (2)
108	332.52	112.76	Shut-in(2)
169	692.53	114.14	End Shut-in(2)
171	1912.71	115.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
178.66	Slightly Gassy Water cut Mud	0.88
0.00	Gas 10% Water 40% Oil 50%	0.00
267.99	Gas and Water cut Foamy Oil	1.32
0.00	Gas 15% Water 30% Oil 55%	0.00
89.33	Slightly Water cut Gassy Oil	0.44
0.00	Water 4% Oil 96% gas was mixed	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15991 DST#: 1
 Test Start: 2011.04.18 @ 05:56:00

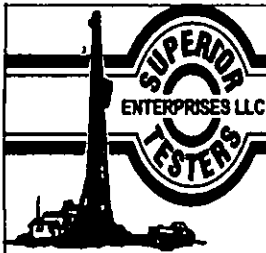
Tool Information

Drill Pipe:	Length: 3398.00 ft	Diameter: 3.80 inches	Volume: 47.67 bbl	Tool Weight: 2000.00 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: 536.07 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 37000.00 lb
			<u>Total Volume: 50.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	40.07 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3922.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in Tool	5.00			3899.00	
Hydrolic Tool	5.00			3904.00	
Jars	6.00			3910.00	
Safety Joint	2.00			3912.00	
Packer	5.00			3917.00	28.00 Bottom Of Top Packer
Packer	5.00			3922.00	
Perforations	25.00			3947.00	
Recorder	1.00	8405	Inside	3948.00	
Recorder	1.00	8400	Outside	3949.00	
Bull Plug	3.00			3952.00	30.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

#1 Hess 21C

8100 East 22nd St North # 700 Wichita Kansas
67278+3188
(P.O.Box 783188)
ATTN: Pat Deeniham

21/13S31W Gove Co.

Job Ticket: 15991

DST#: 1

Test Start: 2011.04.18 @ 05:56:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
178.66	Slightly Gassy Water cut Mud	0.879
0.00	Gas 10% Water 40% Oil 50%	0.000
267.99	Gas and Water cut Foamy Oil	1.318
0.00	Gas 15% Water 30% Oil 55%	0.000
89.33	Slightly Water cut Gassy Oil	0.439
0.00	Water 4% Oil 96% gas w as mixed	0.000
89.66	Water cut Oil	1.257
0.00	Water 40% Oil 60%	0.000
89.66	Water cut Mud 50%/50%	1.258
0.00	Chlorides N/A	0.000
0.00	Resistivity N/A	0.000
0.00	Gravity N/A	0.000

Total Length: 715.30 ft Total Volume: 5.151 bbl

Num Fluid Samples: 0

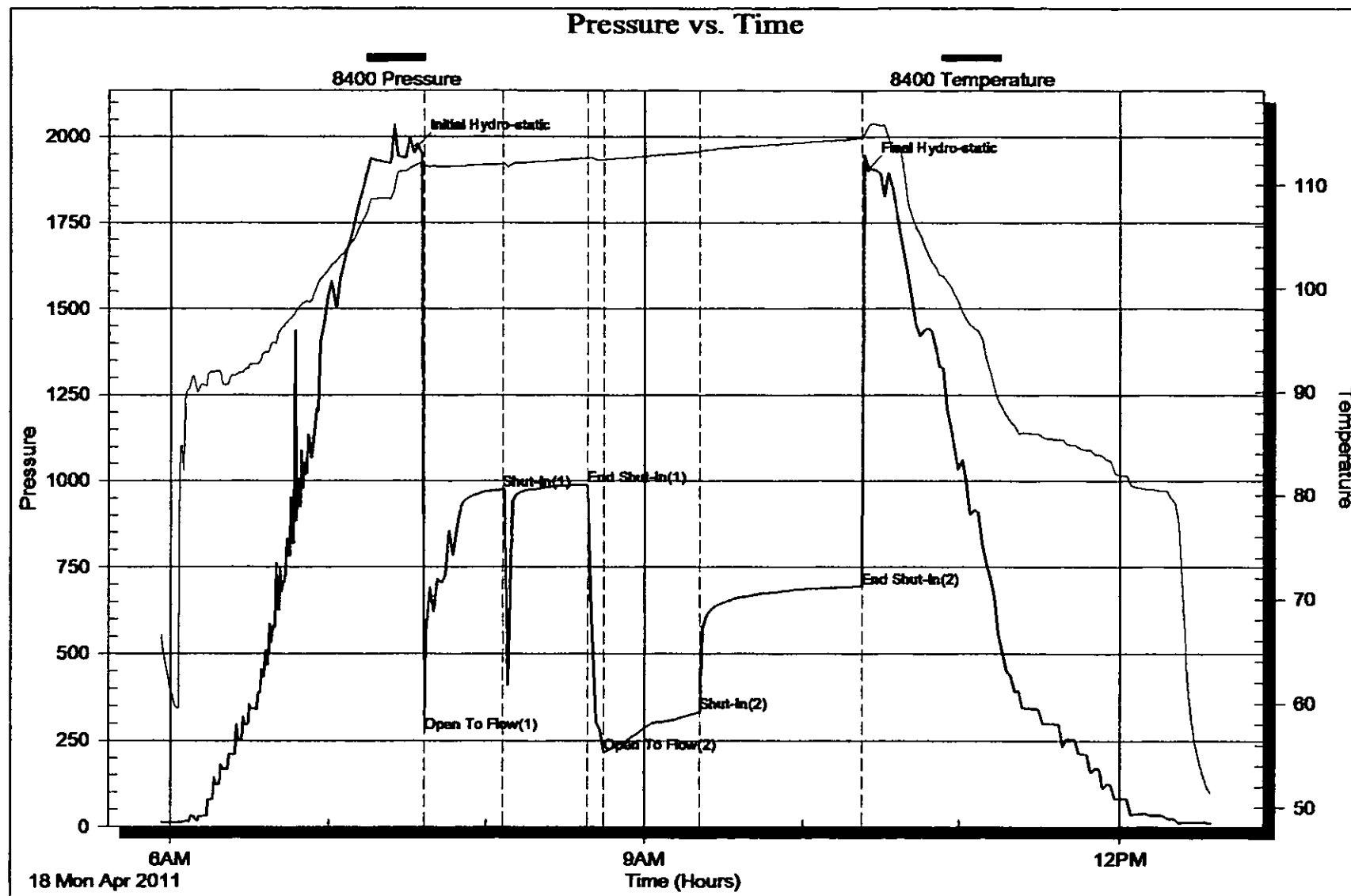
Num Gas Bombs: 0

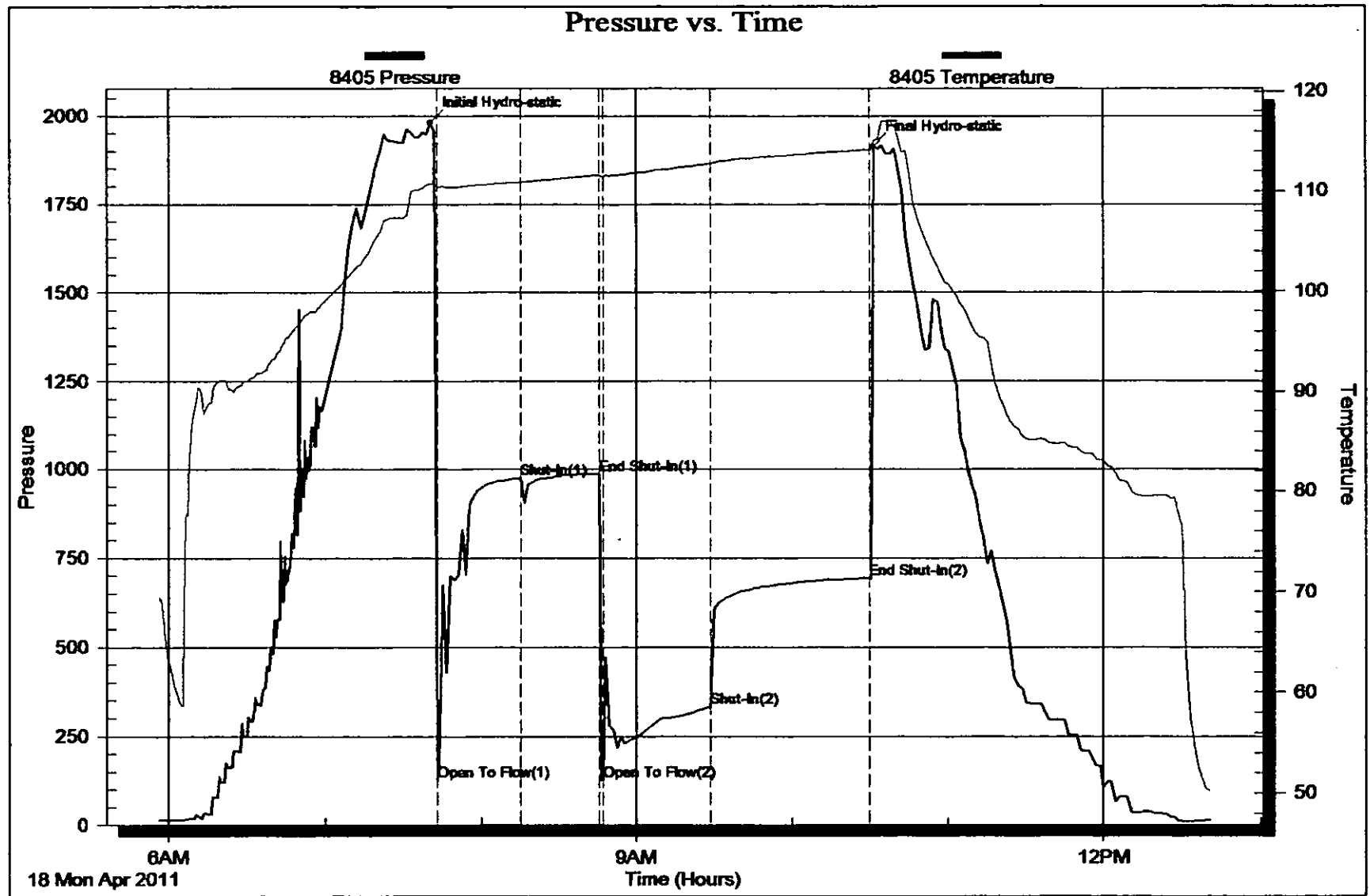
Serial #:

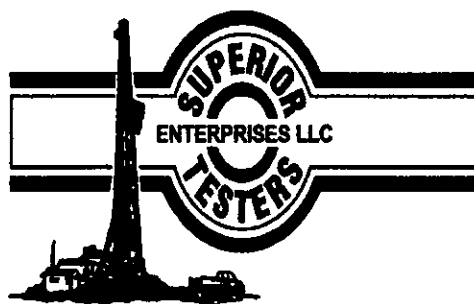
Laboratory Name:

Laboratory Location:

Recovery Comments: Could not clean enough water out of sample. The water was all on bottom of all the samples. Caught a sample every stand. Sorry the Gravity check as well n/a cause the oil was to foamy with mud mixed. Sorry







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.19 @ 08:55:00

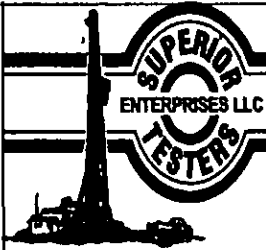
End Date: 2011.04.19 @ 14:22:00

Job Ticket #: 15992 DST #: 2

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

Printed: 2011.04.26 @ 10:36:19

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 2 Lansing "D"Zone 2011.04.19



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

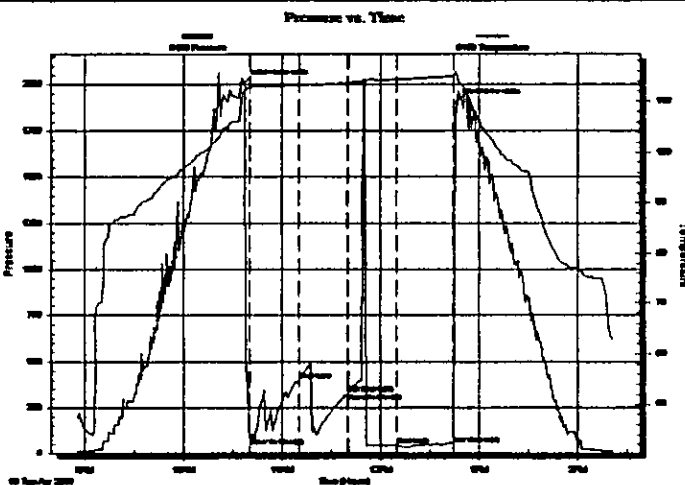
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15992 DST#: 2
 Test Start: 2011.04.19 @ 08:55:00

GENERAL INFORMATION:

Formation: Lansing " D'Zone
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:40:30
 Time Test Ended: 14:22:00
 Interval: 3965.00 ft (KB) To 3975.00 ft (KB) (TVD)
 Total Depth: 3975.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E Ellis
 Unit No: 3345/Scott City/140
 Reference Elevations: 2878.00 ft (KB)
 2868.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 44.94 psia @ 3972.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.19 End Date: 2011.04.19 Last Calib.: 2011.04.19
 Start Time: 08:55:10 End Time: 14:22:00 Time On Btm: 2011.04.19 @ 10:37:00
 Time Off Btm: 2011.04.19 @ 12:46:00

TEST COMMENT: 1ST Opening 30 minutes very weak blow/blow died out in 19 minutes into bucket of water
 1ST Shut-In 30 minutes no blow back
 2ND Opening 30 minutes opened tool/no blow w as dead/flushed tool/good surge/no surge no help still dead
 2ND Opening 30 minutes no blow back



PRESSURE SUMMARY

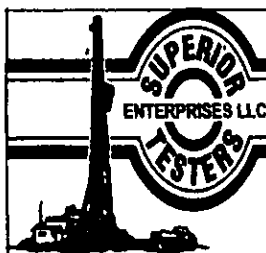
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2006.20	112.08	Initial Hydro-static
4	40.17	112.90	Open To Flow (1)
34	399.86	113.20	Shut-In(1)
63	327.45	113.61	End Shut-In(1)
64	331.63	113.62	Open To Flow (2)
93	44.94	114.27	Shut-In(2)
128	47.98	114.89	End Shut-In(2)
129	1904.18	115.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud with a few spot of Oil in i	0.07

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

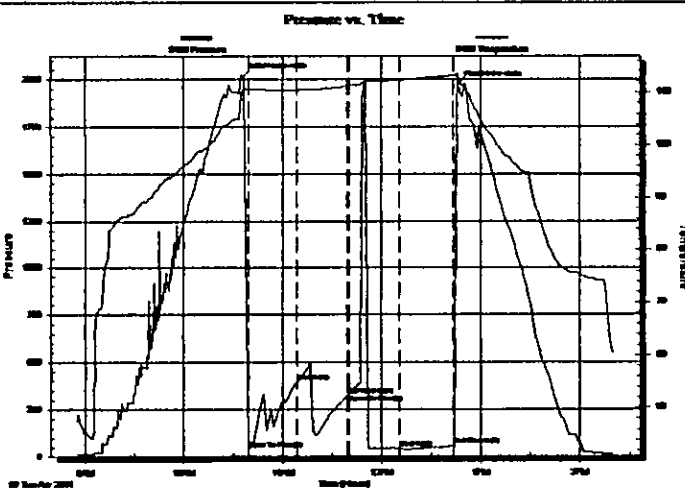
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15992 DST#: 2
 Test Start: 2011.04.19 @ 08:55:00

GENERAL INFORMATION:

Formation: Lansing * D'Zone
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:40:30
 Time Test Ended: 14:22:00
 Interval: 3965.00 ft (KB) To 3975.00 ft (KB) (TVD)
 Total Depth: 3975.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E Ellis
 Unit No: 3345/Scott City/140
 Reference Elevations: 2878.00 ft (KB)
 2868.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 58.02 psia @ 3971.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.19 End Date: 2011.04.19 Last Calib.: 2011.04.19
 Start Time: 08:55:01 End Time: 14:21:00 Time On Btrm: 2011.04.19 @ 10:36:00
 Time Off Btrm: 2011.04.19 @ 12:46:30

TEST COMMENT: 1ST Opening 30 minutes very weak blow /blow died out in 19 minutes into bucket of water
 1ST Shut-in 30 minutes no blow back
 2ND Opening 30 minutes opened tool/no blow w as dead/flushed tool/good surge/no surge no help still dead
 2ND Opening 30 minutes no blow back



PRESSURE SUMMARY

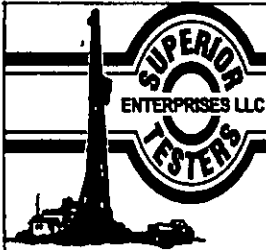
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2013.75	110.53	Initial Hydro-static
4	38.86	110.63	Open To Flow (1)
33	395.53	110.47	Shut-In(1)
63	323.01	111.16	End Shut-In(1)
64	331.13	111.19	Open To Flow (2)
95	44.48	112.24	Shut-In(2)
128	58.02	113.07	End Shut-In(2)
131	1973.05	112.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drilling Mud with a few spot of Oil in i	0.07

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Daenham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15992 DST#: 2
 Test Start: 2011.04.19 @ 08:55:00

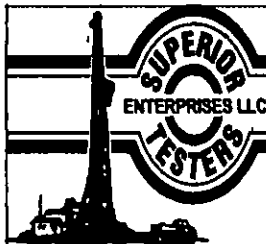
Tool Information

Drill Pipe:	Length: 3435.00 ft	Diameter: 3.80 inches	Volume: 48.18 bbl	Tool Weight: 2000.00 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: 536.07 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 50.82 bbl	Tool Chased 4.00 ft
Drill Pipe Above KB:	34.07 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3965.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Tool slide about 4 foot after tool was opened. Just making a note of it so that it is known.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut-In Tool	5.00			3942.00	
Hydraulic Tool	5.00			3947.00	
Jars	6.00			3953.00	
Safety Joint	2.00			3955.00	
Packer	5.00			3960.00	28.00 Bottom Of Top Packer
Packer	5.00			3965.00	
Perforations	5.00			3970.00	
Recorder	1.00	8405	Inside	3971.00	
Recorder	1.00	8400	Outside	3972.00	
Bull Plug	3.00			3975.00	10.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15992 DST#: 2
 Test Start: 2011.04.19 @ 08:55:00

Mud and Cushion Information

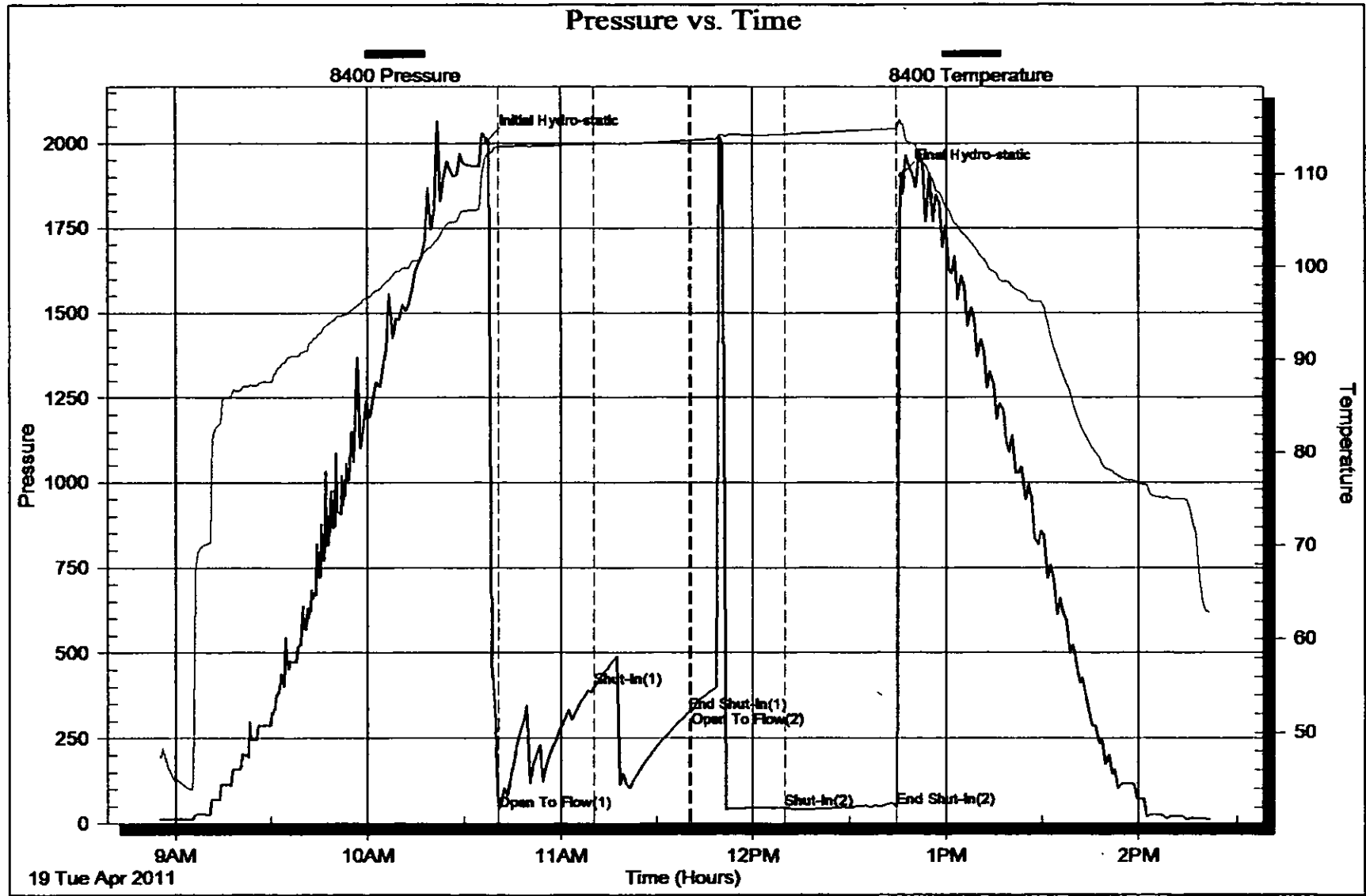
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

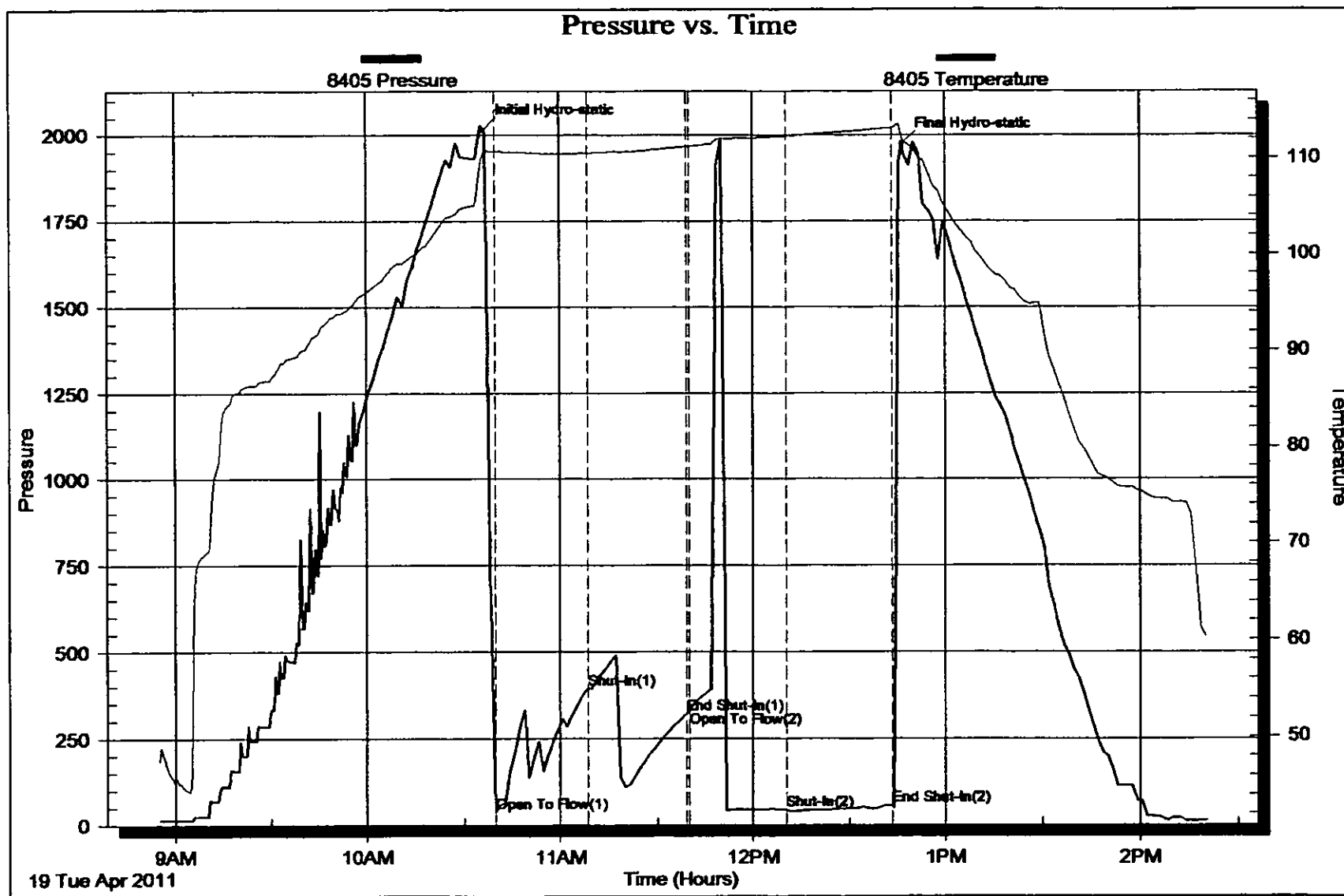
Recovery Information

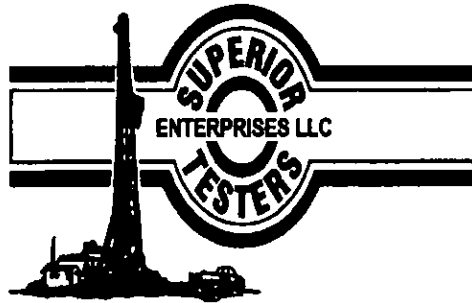
Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling Mud with a few spot of Oil in i	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Thank you for the work!







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.19 @ 10:22:00

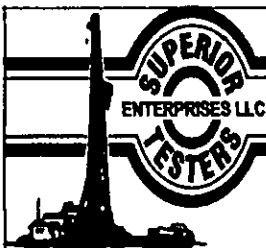
End Date: 2011.04.19 @ 18:45:00

Job Ticket #: 15933 DST #: 3

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

Printed: 2011.04.26 @ 10:10:13

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 3 Lansing " C+D " Zone 2011.04.19



DRILL STEM TEST REPORT

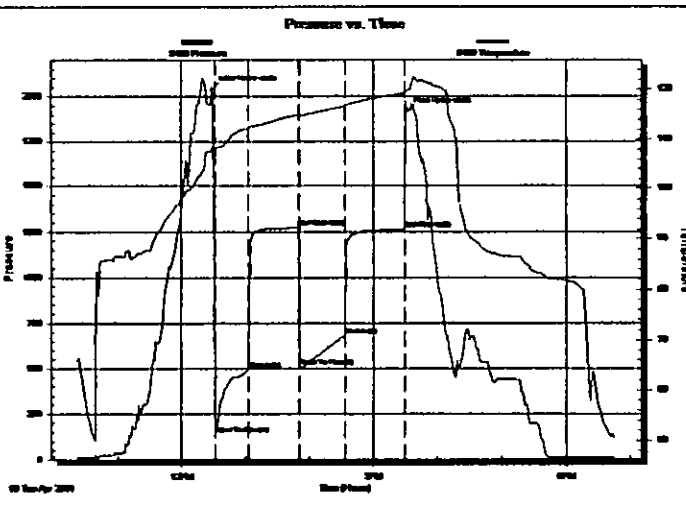
Ritchie Exploration Inc. **#1 Hess 21C**
 8100 East 22nd St North # 700 Wichita Kansas **21/13S31W Gove Co.**
 67278+3188 **Job Ticket: 15933 DST#: 3**
 (P.O.Box 783188) **Test Start: 2011.04.19 @ 10:22:00**
 ATTN: Pat Deenham

GENERAL INFORMATION:

Formation: **Lansing "C+D" Zone**
 Deviated: **No Whipstock:** ft (KB) **Test Type: Conventional Bottom Hole (Initial)**
 Time Tool Opened: 12:31:30 **Tester: Dylan E Ellis**
 Time Test Ended: 18:45:00 **Unit No: 3345/Scott City/140**
 Interval: **2878.00 ft (KB) To 28.00 ft (KB) (TVD)** **Reference Elevations: 2878.00 ft (KB)**
 Total Depth: **4008.00 ft (KB) (TVD)** **2868.00 ft (CF)**
 Hole Diameter: **7.88 inches** **Hole Condition: Fair** **KB to GR/CF: 10.00 ft**

Serial #: 8400 **Outside**
 Press@RunDepth: **681.30 psia @ 2916.00 ft (KB)** **Capacity: 5000.00 psia**
 Start Date: **2011.04.19** **End Date: 2011.04.19** **Last Calib.: 2011.04.20**
 Start Time: **10:22:10** **End Time: 18:45:00** **Time On Btrr: 2011.04.19 @ 12:29:00**
Time Off Btrr: 2011.04.19 @ 15:32:00

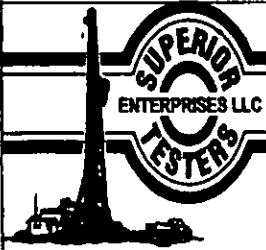
TEST COMMENT: 1ST Opwning 30 Minurwa stron blow/blow blew to bottom of bucket of Water
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 45 Minutes weak blow at start/slowly building/built to 9 inches into bucket
 2ND Shut-I 60 Minutes no blow back



PRESSURE SUMMARY			
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2035.46	108.22	Initial Hydro-static
3	137.01	108.06	Open To Flow (1)
34	494.33	112.28	Shut-In(1)
81	1271.85	115.06	End Shut-In(1)
82	506.42	114.89	Open To Flow (2)
125	681.30	116.80	Shut-In(2)
180	1264.07	119.27	End Shut-In(2)
183	1918.94	119.88	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	Slightly Gassy Mud with Oil spots	0.30
0.00	Gas 6% Mud 92% Oil 2%	0.00
570.00	Water cut Gassy Oil	3.66
0.00	Gas 10% Water 10% Oil 80%	0.00
475.00	Gassy Oil // Gas 20% Oil 80%//	6.66
268.00	Gas and Water cut Oil	3.76

Gas Rates			
	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

Ritchie Exploration Inc.

#1 Hess 21C

8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

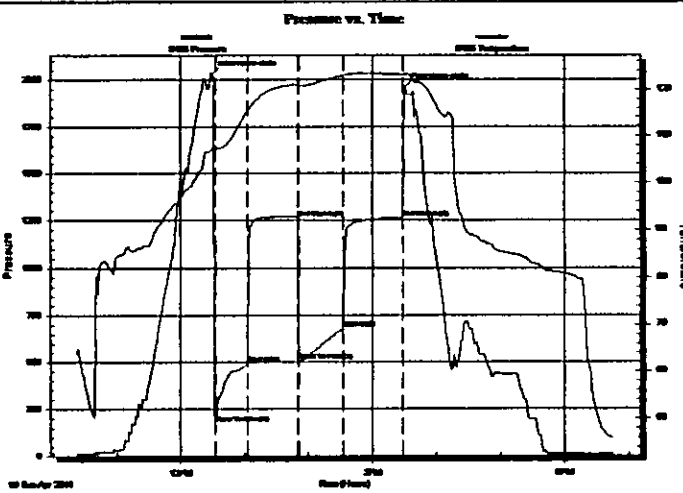
21/13S31W Gove Co.
 Job Ticket: 15933 DST#: 3
 Test Start: 2011.04.19 @ 10:22:00

GENERAL INFORMATION:

Formation: Lansing " C+D " Zone
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:31:30
 Time Test Ended: 18:45:00
 Interval: 2878.00 ft (KB) To 28.00 ft (KB) (TVD)
 Total Depth: 4008.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dylan E Ellis
 Unit No: 3345/Scott City/140
 Reference Elevations: 2878.00 ft (KB)
 2868.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 1262.10 psia @ 2915.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.19 End Date: 2011.04.19 Last Calib.: 2011.04.20
 Start Time: 10:22:01 End Time: 18:45:30 Time On Btm: 2011.04.19 @ 12:29:00
 Time Off Btm: 2011.04.19 @ 15:30:30

TEST COMMENT: 1ST Opw ning 30 Minurw a stron blow /blow blew to bottom of bucket of Water
 1ST Shut-In 45 Minutes no blow back
 2ND Opening 45 Minutes weak blow at start/slowly building/built to 9 inches into bucket
 2ND Shut-I 60 Minutes no blow back



PRESSURE SUMMARY

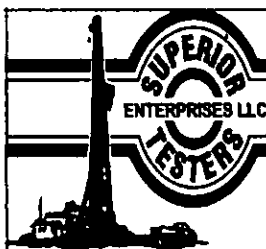
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2031.83	107.31	Initial Hydro-static
4	173.52	107.29	Open To Flow (1)
34	493.44	115.08	Shut-In(1)
81	1259.66	120.95	End Shut-In(1)
82	505.56	120.77	Open To Flow (2)
124	677.07	122.75	Shut-In(2)
180	1262.10	123.00	End Shut-In(2)
182	1959.32	123.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly Gassy Mud w with Oil spots	0.30
0.00	Gas 6% Mud 92% Oil 2%	0.00
570.00	Water cut Gassy Oil	3.66
0.00	Gas 10% Water 10% Oil 80%	0.00
475.00	Gassy Oil // Gas 20% Oil 80%//	6.66
268.00	Gas and Water cut Oil	3.76

Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (Mc/d)



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

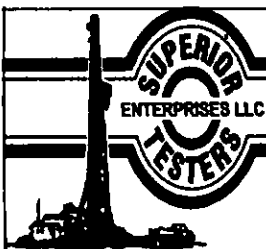
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15933 DST#: 3
 Test Start: 2011.04.19 @ 10:22:00

Tool Information

Drill Pipe:	Length: 2343.00 ft	Diameter: 3.80 inches	Volume: 32.87 bbl	Tool Weight: 2000.00 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: 536.07 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 35.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.07 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	2878.00 ft			Final 83000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Very nice well. That was a good job on all part that was in on it.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2861.00	
Hydrolic Tool	5.00			2866.00	
Safety Joint	2.00			2868.00	
Packer	5.00			2873.00	22.00 Bottom Of Top Packer
Packer	5.00			2878.00	
Perforations	36.00			2914.00	
Recorder	1.00	8405	Inside	2915.00	
Recorder	1.00	8400	Outside	2916.00	
Bull Plug	3.00			2919.00	41.00 Bottom Packers & Anchor
Total Tool Length:	63.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc. #1 Hess 21C
 8100 East 22nd St North # 700 Wichita Kansas 21/13S31W Gove Co.
 67278+3188 Job Ticket: 15933 DST#: 3
 (P.O.Box 783188) Test Start: 2011.04.19 @ 10:22:00
 ATTN: Pat Deeniham

Mud and Cushion Information

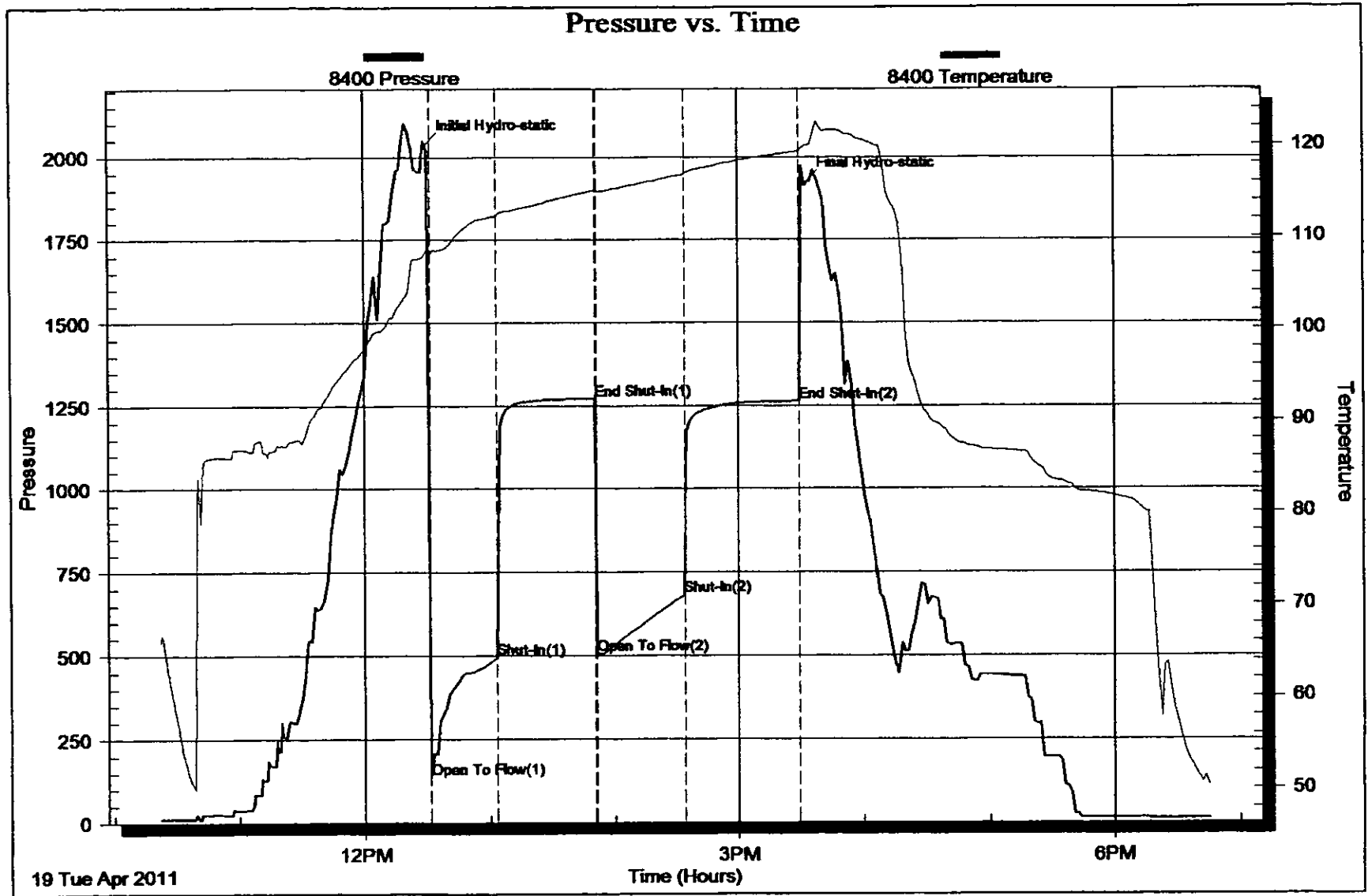
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.96 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2700.00 ppm			
Filter Cake: 1.00 inches			

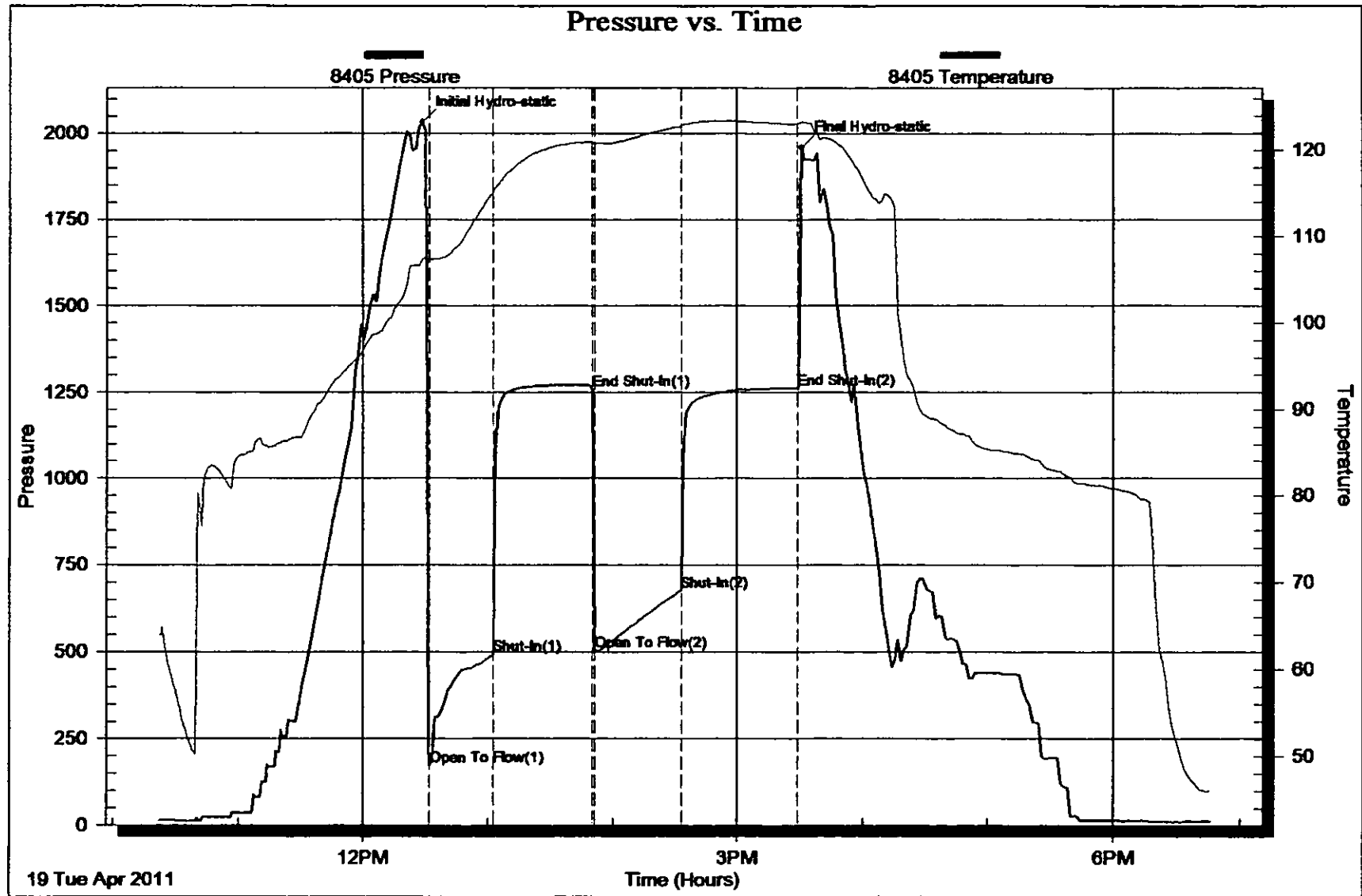
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Slightly Gassy Mud with Oil spots	0.295
0.00	Gas 6% Mud 92% Oil 2%	0.000
570.00	Water cut Gassy Oil	3.659
0.00	Gas 10% Water 10% Oil 80%	0.000
475.00	Gassy Oil // Gas 20% Oil 80%//	6.663
268.00	Gas and Water cut Oil	3.759
0.00	Gas 20% Oil 15% Water 65%	0.000
268.00	Slightly Oil cut Gassy Water	3.759
0.00	Oil 15% Gas 20% Water 65%	0.000
0.00	Chlorides were 70,000.0	0.000
0.00	Gravity Oil corrected was 37/	0.000

Total Length: 1641.00 ft Total Volume: 18.135 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Resistivity was .12 @ 59 degrees







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.20 @ 19:28:00

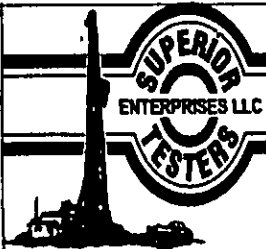
End Date: 2011.04.21 @ 02:09:30

Job Ticket #: 15994 DST #: 4

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

Printed: 2011.04.26 @ 10:36:08

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 4 LANSING H ZONE 2011.04.20



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

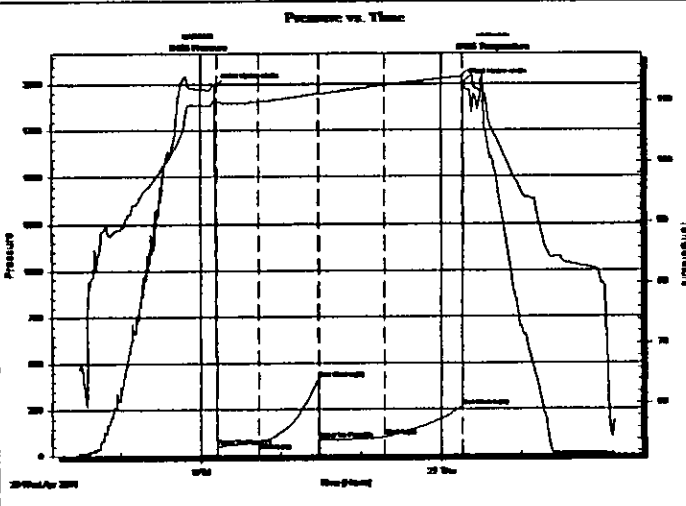
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15994 DST#: 4
 Test Start: 2011.04.20 @ 19:28:00

GENERAL INFORMATION:

Formation: **LANSING H ZONE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:12:00
 Time Test Ended: 02:09:30
 Interval: **4048.00 ft (KB) To 4088.00 ft (KB) (TVD)**
 Total Depth: **4088.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **DYLAN E ELLIS**
 Unit No: **3345- SCOTT CITY - 1**
 Reference Elevations: **2878.00 ft (KB)**
2868.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: **8405** Inside
 Press@RunDepth: **99.60 psia @ 4084.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.04.20** End Date: **2011.04.21** Last Calib.: **2011.04.21**
 Start Time: **19:28:01** End Time: **02:09:30** Time On Btm: **2011.04.20 @ 21:11:00**
 Time Off Btm: **2011.04.21 @ 00:16:30**

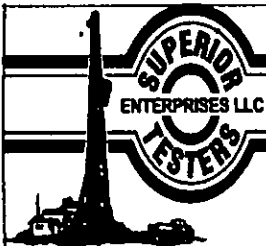
TEST COMMENT: 30/INITIAL OPEN:VERY WEAK BLOW BLOW BUILT 1 INCH INTO BUCKET OF WATER SLOW BUILDING
 45/NO BLOW BACK
 45/VERY WEAK BLOW SLOW BUILDING BLOW BLOW 3 1/2 INCHES INTO WATER IN 45 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1988.69	110.13	Initial Hydro-static
1	48.23	109.83	Open To Flow (1)
32	71.99	109.91	Shut-In(1)
77	416.05	111.31	End Shut-In(1)
78	83.91	111.25	Open To Flow (2)
127	99.60	112.65	Shut-In(2)
185	258.97	114.08	End Shut-In(2)
186	2007.03	114.37	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
110.00	SLIGHTLEY GASSY OIL CUT MUD	0.54
0.00	45%MUD 45%OIL 10%GAS	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

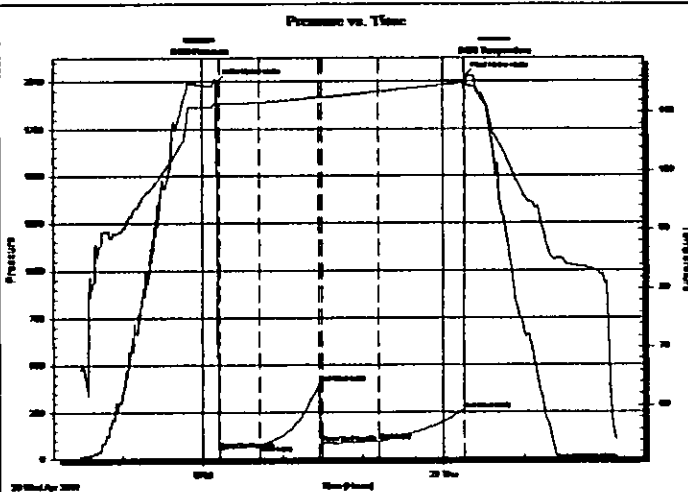
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15994 DST#: 4
 Test Start: 2011.04.20 @ 19:28:00

GENERAL INFORMATION:

Formation: **LANSING H ZONE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:12:00
 Time Test Ended: 02:09:30
 Interval: **4048.00 ft (KB) To 4088.00 ft (KB) (TVD)**
 Total Depth: 4088.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DYLANE ELLIS
 Unit No: 3345- SCOTT CITY - 1
 Reference Elevations: 2878.00 ft (KB)
 2868.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 261.60 psia @ 4085.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.20 End Date: 2011.04.21 Last Calib.: 2011.04.21
 Start Time: 19:28:10 End Time: 02:09:30 Time On Btrr: 2011.04.20 @ 21:11:00
 Time Off Btrr: 2011.04.21 @ 00:16:30

TEST COMMENT: 30/INITIAL OPEN VERY WEAK BLOW BLOW BUILT 1 INCH INTO BUCKET OF WATER SLOW BUILDING
 45/NO BLOW BACK
 45/VERY WEAK BLOW SLOW BUILDING BLOW BLOW 3 1/2 INCHES INTO WATER IN 45 MINUTES
 60/FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

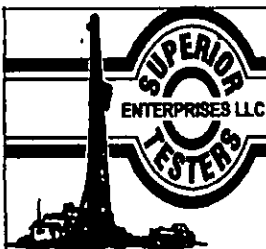
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1992.16	111.86	Initial Hydro-static
2	48.69	111.49	Open To Flow (1)
32	71.99	111.61	Shut-in(1)
77	406.47	112.57	End Shut-in(1)
78	83.53	112.51	Open To Flow (2)
121	94.95	113.45	Shut-in(2)
185	261.60	114.85	End Shut-in(2)
186	2025.15	115.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	SLIGHTLEY GASSY OIL CUT MUD	0.54
0.00	45%MUD 45%OIL 10%GAS	0.00

Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (Mc/d)



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

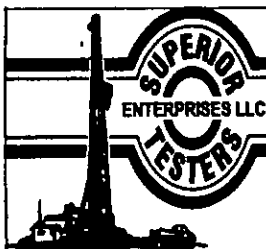
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15994 DST#: 4
 Test Start: 2011.04.20 @ 19:28:00

Tool Information

Drill Pipe:	Length: 3514.00 ft	Diameter: 3.80 inches	Volume: 49.29 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: 536.00 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 51.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4048.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4025.00	
Hydraulic Tool	5.00			4030.00	
Jars	6.00			4036.00	
Safety Joint	2.00			4038.00	
Packer	5.00			4043.00	28.00 Bottom Of Top Packer
Packer	5.00			4048.00	
Perforations	35.00			4083.00	
Recorder	1.00	8405	Inside	4084.00	
Recorder	1.00	8400	Outside	4085.00	
Bull Plug	3.00			4088.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Richie Exploration Inc.
8100 East 22nd St North # 700 Wichita Kansas
67278+3188
(P.O.Box 783188)
ATTN: Pat Deeniham

#1 Hess 21C
21/13S31W Gove Co.
Job Ticket: 15994 DST#: 4
Test Start: 2011.04.20 @ 19:28:00

Mud and Cushion Information

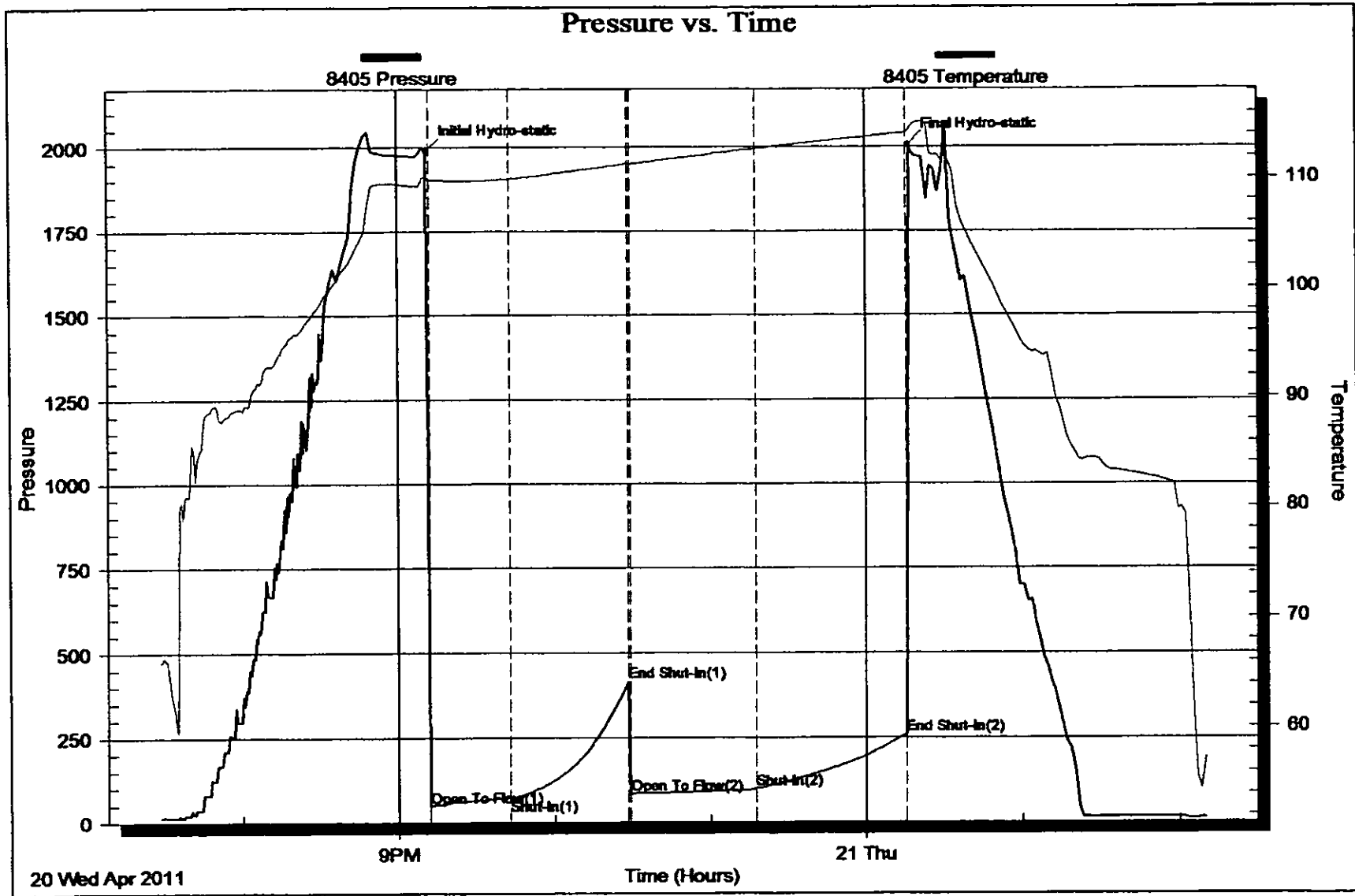
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Safinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ²	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3400.00 ppm			
Filter Cake: 1.00 inches			

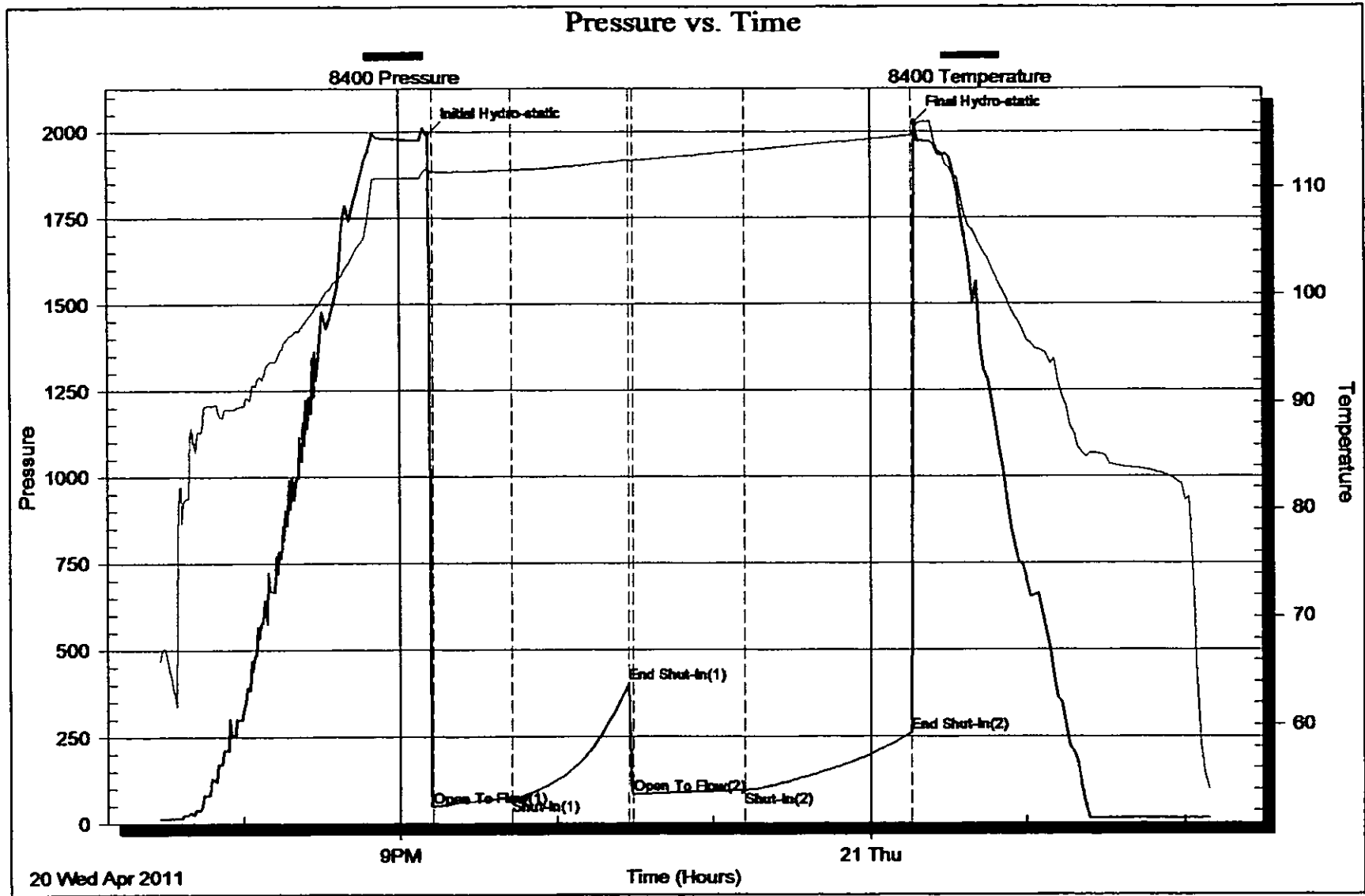
Recovery Information

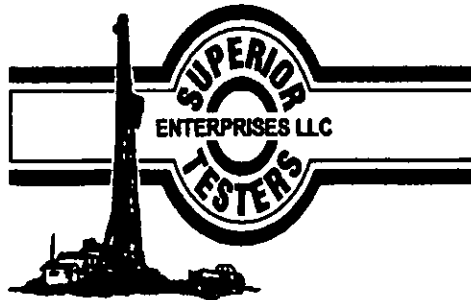
Recovery Table

Length ft	Description	Volume bbl
110.00	SLIGHTLEY GASSY OIL CUT MUD	0.541
0.00	45%MUD 45%OIL 10%GAS	0.000

Total Length: 110.00 ft Total Volume: 0.541 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.21 @ 11:15:00

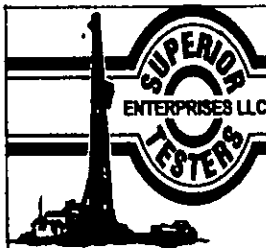
End Date: 2011.04.21 @ 18:56:00

Job Ticket #: 15995 DST #: 5

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

Printed: 2011.04.26 @ 10:31:23

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 5 LANSING 2011.04.21



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

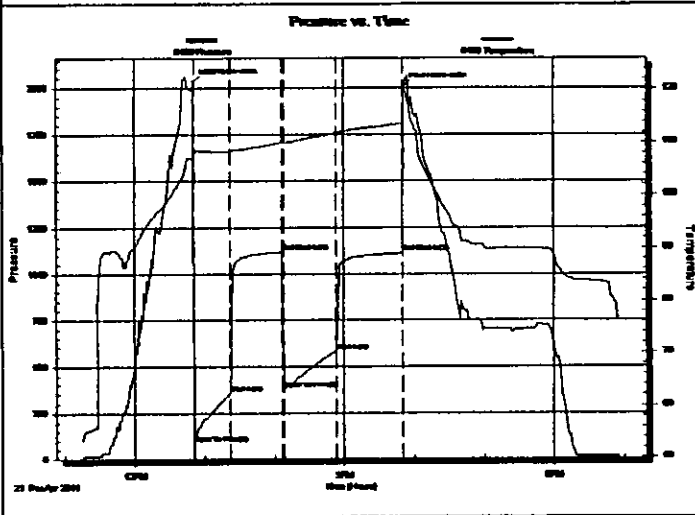
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15995 DST#: 5
 Test Start: 2011.04.21 @ 11:15:00

GENERAL INFORMATION:

Formation: **LANSING**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 12:51:30
 Time Test Ended: 18:56:00
 Interval: **4086.00 ft (KB) To 4117.00 ft (KB) (TVD)**
 Total Depth: **4117.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **JAREED SCHECK**
 Unit No: **3345-SCOTT CITY-140**
 Reference Elevations: **2878.00 ft (KB)**
2868.00 ft (CF)
 KB to GRVCF: **10.00 ft**

Serial #: **8400** Inside
 Press@RunDepth: **583.35 psia @ 4113.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.04.21** End Date: **2011.04.21** Last Calib.: **2011.04.21**
 Start Time: **11:15:10** End Time: **18:56:00** Time On Btrr: **2011.04.21 @ 12:50:30**
 Time Off Btrr: **2011.04.21 @ 15:51:00**

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 45/INITIAL SHUT IN:BUILT BOTTOM OF BUCKET
 45/FINAL OPEN: STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 1/2 MINUTES
 60/FINAL SHUT IN:BUILT BOTTOM OF BUCKET GAS TO SURFACE THROUGH OUT SHUT IN



PRESSURE SUMMARY

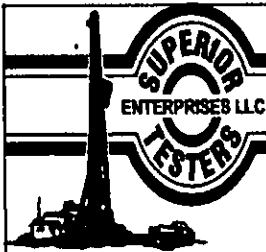
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2031.25	107.77	Initial Hydro-static
1	85.23	107.96	Open To Flow (1)
32	355.49	108.22	Shut-In(1)
77	1120.80	109.98	End Shut-In(1)
78	377.65	109.83	Open To Flow (2)
123	583.35	111.69	Shut-In(2)
180	1114.54	113.61	End Shut-In(2)
181	2002.67	120.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	CLEAN GASSY OIL 20 %GAS 80%OIL	0.93
1330.00	CLEAN GASSY OIL 25%GAS 75%OIL	15.50
95.00	MUDDY OIL 30%MUD 70%OIL	1.33
0.00	2470 GAS IN PIPE	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

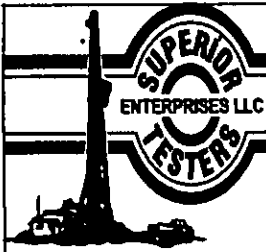
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15995 DST#: 5
 Test Start: 2011.04.21 @ 11:15:00

Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 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: 536.00 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 120000.0 lb
			Total Volume: 52.44 bbl	Tool Chased 3.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4086.00 ft			Final 90000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: RUINED PACKER /USED CRC SUB

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4063.00	
Hydrolic Tool	5.00			4068.00	
Jars	6.00			4074.00	
Safety Joint	2.00			4076.00	
Packer	5.00			4081.00	28.00 Bottom Of Top Packer
Packer	5.00			4086.00	
Perforations	26.00			4112.00	
Recorder	1.00	8400	Inside	4113.00	
Recorder	1.00	8405	Outside	4114.00	
Buff Plug	3.00			4117.00	31.00 Bottom Packers & Anchor
Total Tool Length:	59.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

#1 Hess 21C

8100 East 22nd St North # 700 Wichita Kansas
67278+3188
(P.O.Box 783188)
ATTN: Pat Deeniham

21/13S31W Gove Co.

Job Ticket: 15995 DST#: 5
Test Start: 2011.04.21 @ 11:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 7.18 in³
Resistivity: ohm.m
Salinity: 2500.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Satfinity: ppm

Recovery Information

Recovery Table

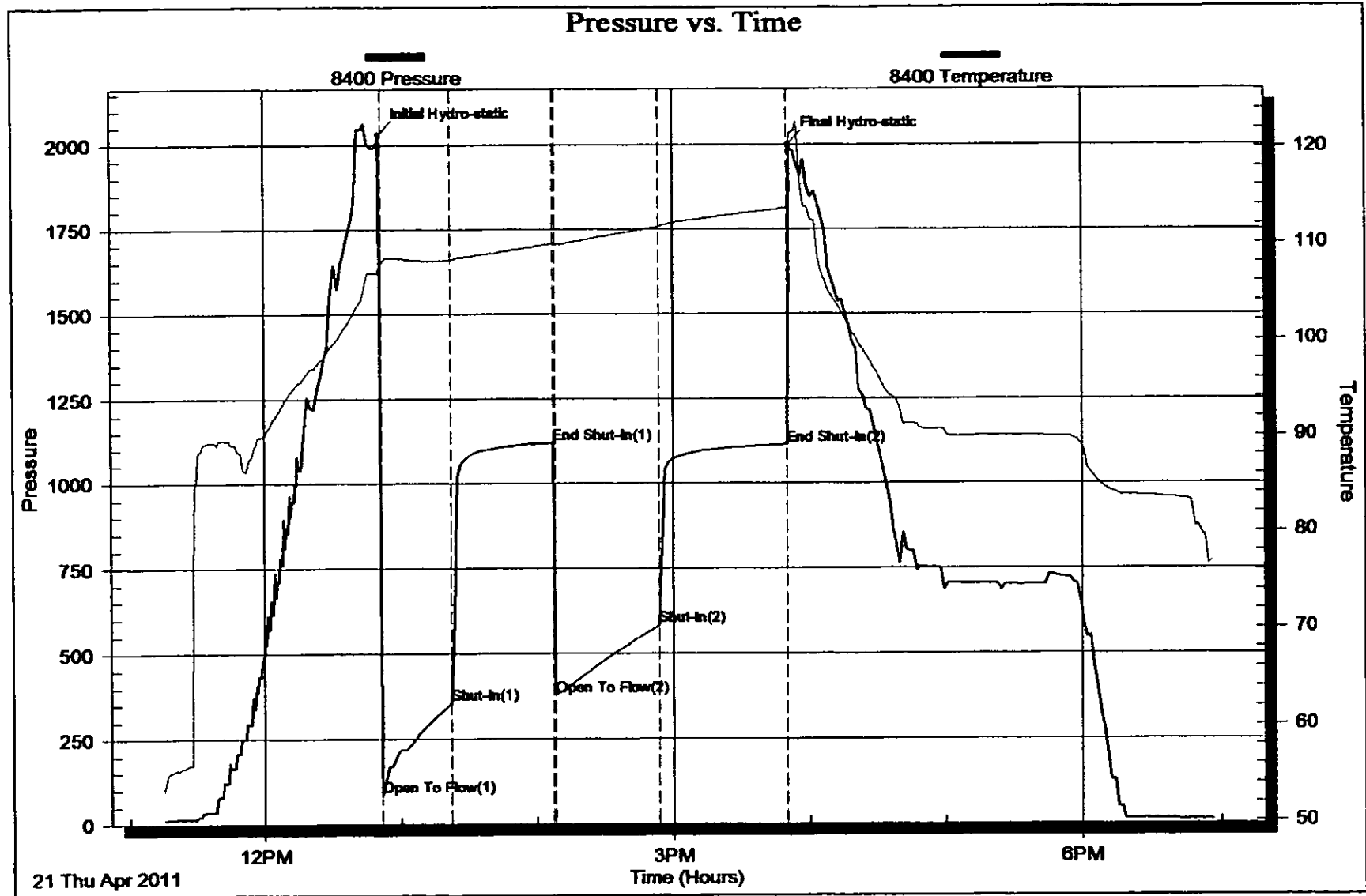
Length ft	Description	Volume bbl
190.00	CLEAN GASSY OIL 20 %GAS 80%OIL	0.934
1330.00	CLEAN GASSY OIL 25%GAS 75%OIL	15.505
95.00	MUDDY OIL 30%MUD 70%OIL	1.333
0.00	2470 GAS IN PIPE	0.000

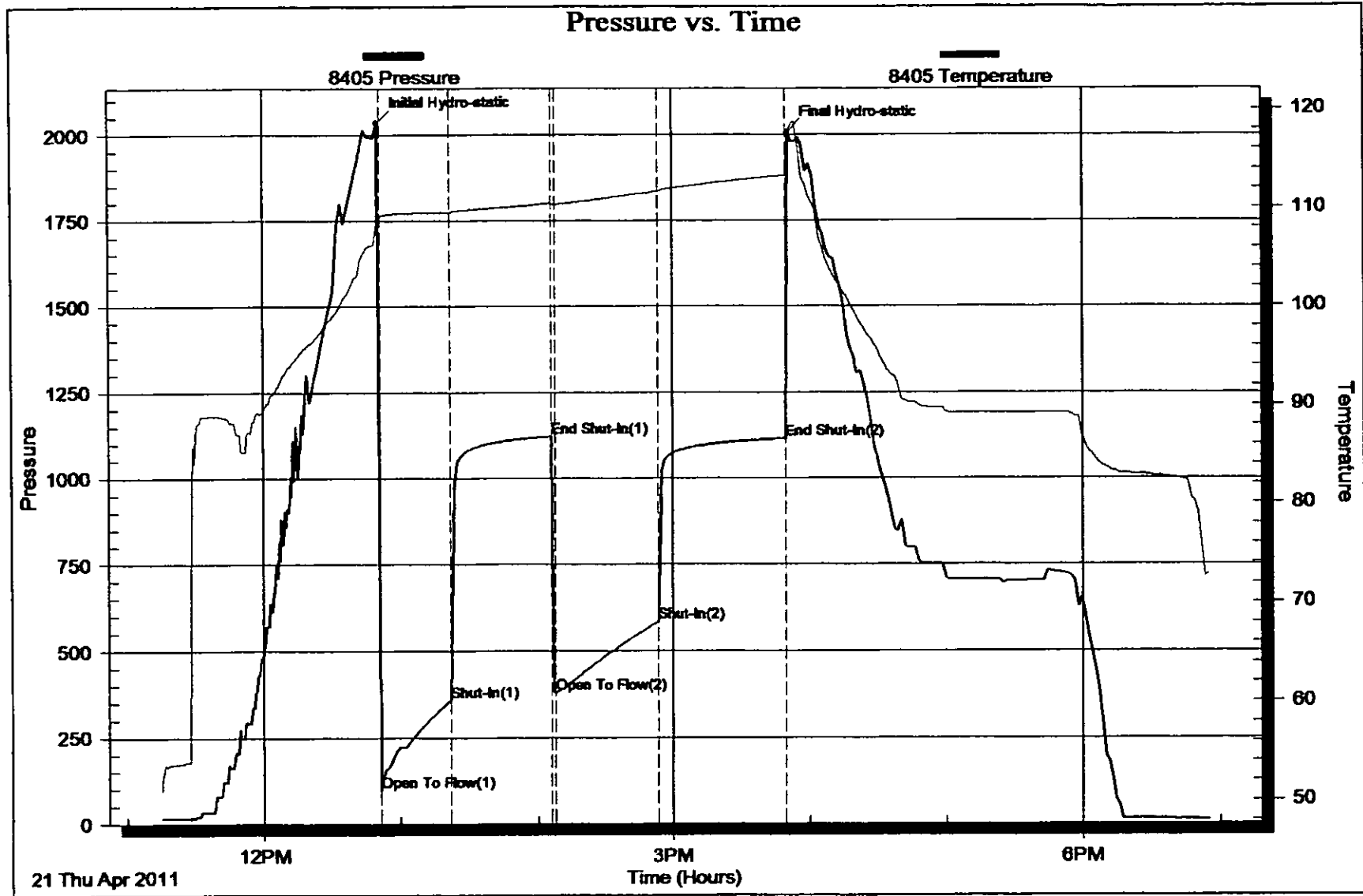
Total Length: 1615.00 ft Total Volume: 17.772 bbl

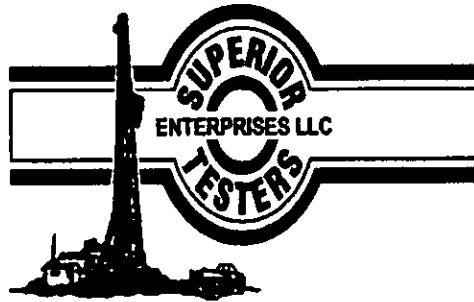
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RUINED PACKER / USED CIRC SUB







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.22 @ 02:30:00

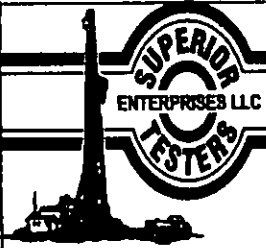
End Date: 2011.04.22 @ 09:51:30

Job Ticket #: 15996 DST #: 6

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

Printed: 2011.04.26 @ 10:30:58

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 6 LANSING J 2011.04.22



DRILL STEM TEST REPORT

Ritchie Exploration Inc.

#1 Hess 21C

8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

21/13S31W Gove Co.

Job Ticket: 15996 DST#: 6

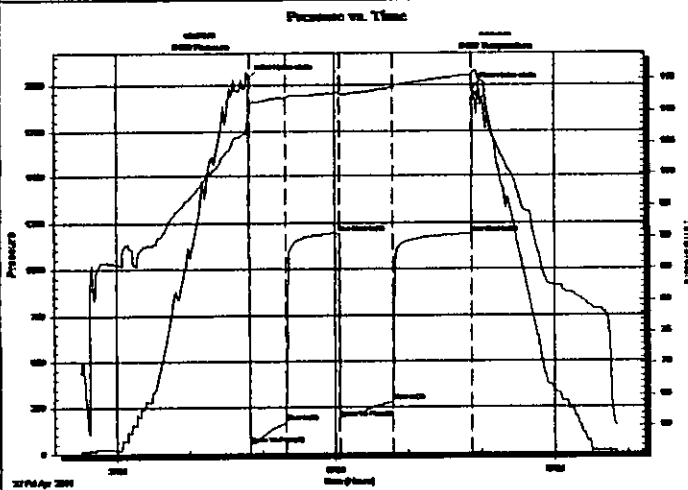
Test Start: 2011.04.22 @ 02:30:00

GENERAL INFORMATION:

Formation: **LANSING J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 04:49:30
 Time Test Ended: 09:51:30
 Interval: **4122.00 ft (KB) To 4134.00 ft (KB) (TVD)**
 Total Depth: **4134.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **JARED SCHECK**
 Unit No: **3345-140-SCOTT CITY**
 Reference Elevations: **2878.00 ft (KB)**
2868.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: **8400** Inside
 Press@RunDepth: **281.16 psia @ 4130.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.04.22** End Date: **2011.04.22** Last Calib.: **2011.04.22**
 Start Time: **02:30:10** End Time: **09:51:30** Time On Btm: **2011.04.22 @ 04:48:30**
 Time Off Btm: **2011.04.22 @ 07:53:30**

TEST COMMENT: 30/INITIAL OPEN:STRONGB BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 45/INITIAL SHUT IN:BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 5 MINUTES
 60/FINAL SHUT IN:NO BOTTOM OF BUCKET



PRESSURE SUMMARY

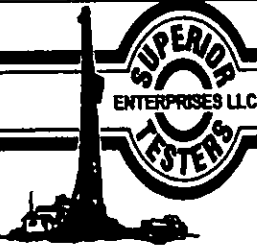
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2032.79	109.17	Initial Hydro-static
1	49.53	110.93	Open To Flow (1)
31	166.78	112.08	Shut-In(1)
74	1193.22	112.93	End Shut-In(1)
75	189.65	112.65	Open To Flow (2)
119	281.16	113.75	Shut-In(2)
184	1189.13	115.65	End Shut-In(2)
185	1984.35	116.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
950.00	CLEAN GASSY OIL	8.44
0.00	25%GAS 75%OIL	0.00
0.00	2800 FEET GAS IN PIPE	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc. **#1 Hess 21C**
 8100 East 22nd St North # 700 Wichita Kansas **21/13S31W Gove Co.**
 67278+3188
 (P.O.Box 783188) Job Ticket: 15996 **DST#: 6**
 ATTN: Pat Deenham Test Start: 2011.04.22 @ 02:30:00

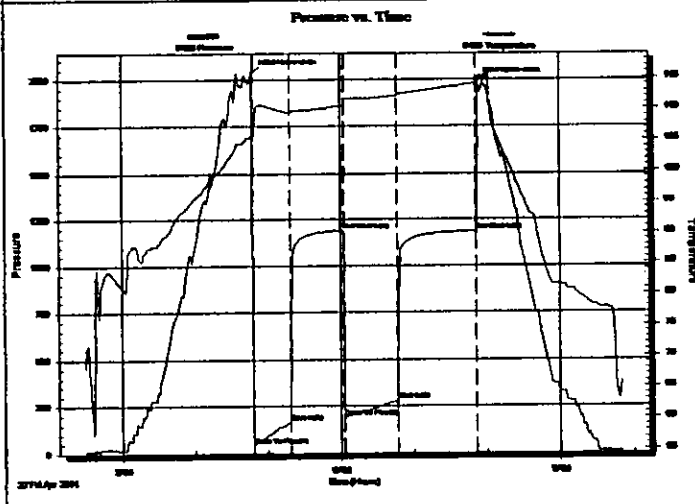
GENERAL INFORMATION:

Formation: **LANSING J**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:49:30 Tester: **JARED SCHECK**
 Time Test Ended: 09:51:30 Unit No: **3345-140-SCOTT CITY**

Interval: **4122.00 ft (KB) To 4134.00 ft (KB) (TVD)** Reference Elevations: **2878.00 ft (KB)**
 Total Depth: **4134.00 ft (KB) (TVD)** **2868.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair KB to GR/CF: **10.00 ft**

Serial #: **8405** Outside
 Press@RunDepth: **1188.56 psia @ 4131.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.04.22** End Date: **2011.04.22** Last Calib.: **2011.04.22**
 Start Time: **02:30:01** End Time: **09:51:00** Time On Btm: **2011.04.22 @ 04:48:00**
 Time Off Btm: **2011.04.22 @ 07:53:00**

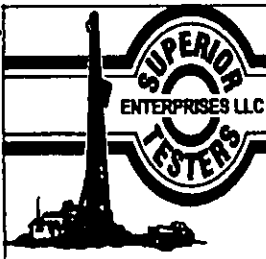
TEST COMMENT: 30/INITIAL OPEN:STRONGB BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 45/INITIAL SHUT IN:BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 5 MINUTES
 60/FINAL SHUT IN:NO BOTTOM OF BUCKET



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2035.56	105.63	Initial Hydro-static
1	42.96	105.09	Open To Flow (1)
31	165.32	109.43	Shut-In(1)
75	1192.70	110.55	End Shut-In(1)
76	189.96	111.53	Open To Flow (2)
119	279.43	112.14	Shut-In(2)
184	1188.56	114.02	End Shut-In(2)
185	1985.54	114.64	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
950.00	CLEAN GASSY OIL	8.44
0.00	25%GAS 75%OIL	0.00
0.00	2800 FEET GAS IN PIPE	0.00

Gas Rates			
	Chole (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15996 DST#: 6
 Test Start: 2011.04.22 @ 02:30:00

Tool Information

Drill Pipe:	Length: 3581.00 ft	Diameter: 3.80 inches	Volume: 50.23 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: 536.00 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 52.87 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4122.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4099.00	
Hydraulic Tool	5.00			4104.00	
Jars	6.00			4110.00	
Safety Joint	2.00			4112.00	
Packer	5.00			4117.00	28.00 Bottom Of Top Packer
Packer	5.00			4122.00	
Perforations	7.00			4129.00	
Recorder	1.00	8400	Inside	4130.00	
Recorder	1.00	8405	Outside	4131.00	
Bull Plug	3.00			4134.00	12.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15996 DST#: 8
 Test Start: 2011.04.22 @ 02:30:00

Mud and Cushion Information

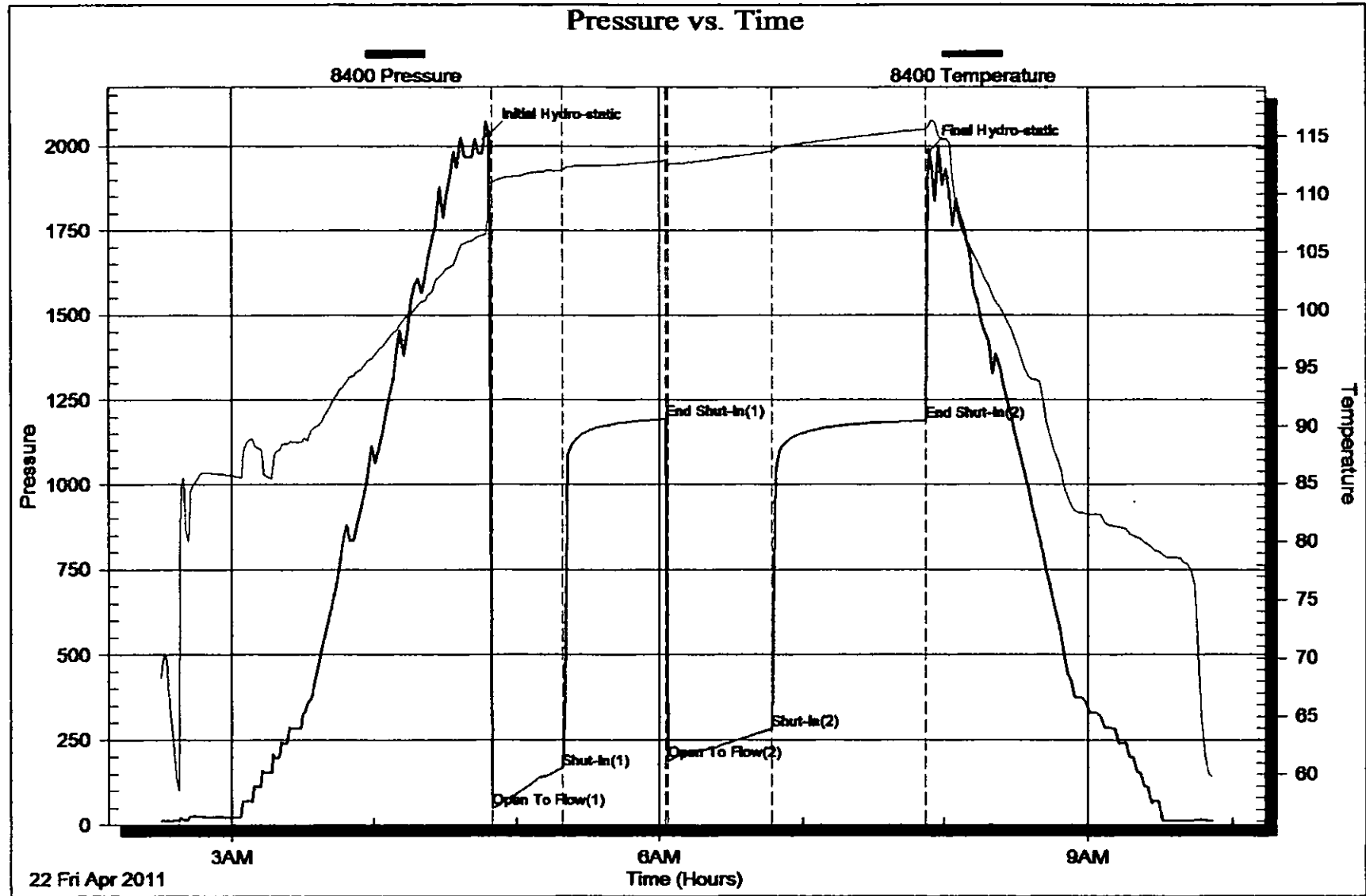
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2500.00 ppm			
Filter Cake: 1.00 inches			

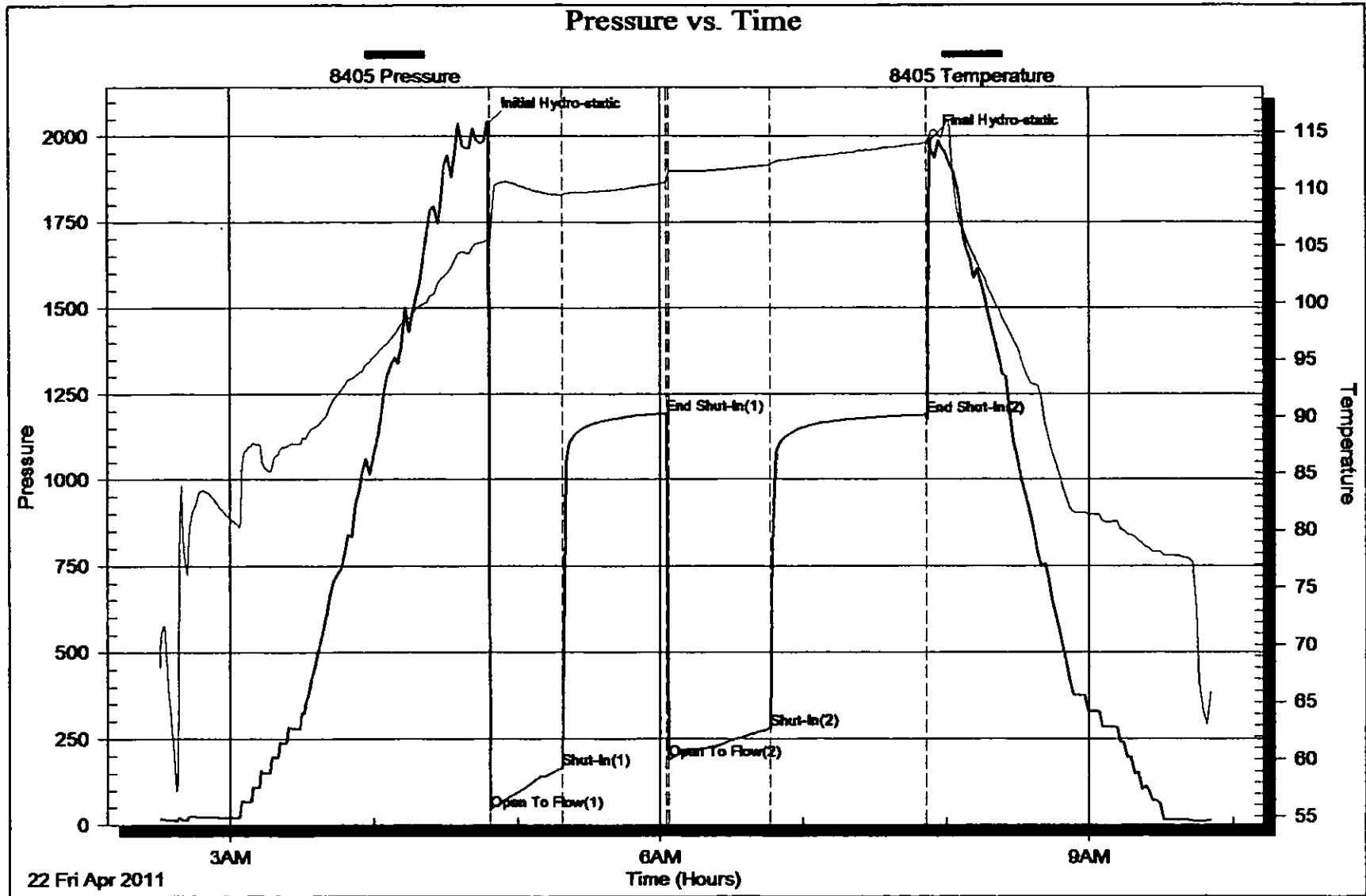
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
950.00	CLEAN GASSY OIL	8.443
0.00	25%GAS 75%OIL	0.000
0.00	2800 FEET GAS IN PIPE	0.000

Total Length: 950.00 ft Total Volume: 8.443 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: GRAVITY OIL 38







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.22 @ 22:20:00

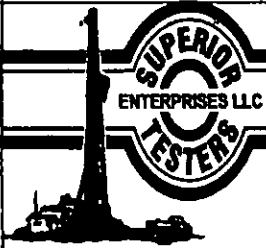
End Date: 2011.04.23 @ 06:24:00

Job Ticket #: 15997 DST #: 7

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

Printed: 2011.04.26 @ 10:30:47

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 7 LANSING K&L 2011.04.22



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

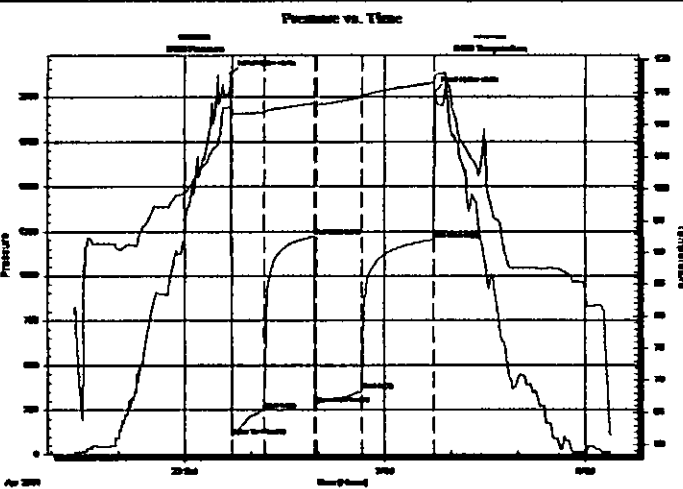
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15997 DST#: 7
 Test Start: 2011.04.22 @ 22:20:00

GENERAL INFORMATION:

Formation: **LANSING K&L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:42:30
 Time Test Ended: 06:24:00
 Interval: **4142.00 ft (KB) To 4208.00 ft (KB) (TVD)**
 Total Depth: 4208.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3345-140-SCOTT CITY
 Reference Elevations: 2878.00 ft (KB)
 2868.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8400** Inside
 Press@RunDepth: 355.70 psia @ 4204.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.22 End Date: 2011.04.23 Last Calib.: 2011.04.23
 Start Time: 22:20:10 End Time: 06:24:00 Time On Btm: 2011.04.23 @ 00:41:30
 Time Off Btm: 2011.04.23 @ 03:45:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 5 MINUTES
 45/INITIAL SHUT IN :BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET 6 MINUTES
 60/FINAL SHUT IN :BOTTOM OF BUCKET



PRESSURE SUMMARY

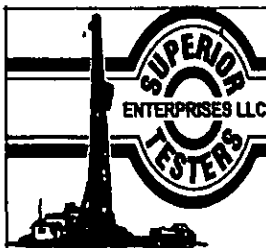
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2123.32	112.32	Initial Hydro-static
1	103.98	111.77	Open To Flow (1)
30	250.41	111.97	Shut-In(1)
76	1223.18	113.39	End Shut-In(1)
77	284.85	113.16	Open To Flow (2)
118	355.70	114.33	Shut-In(2)
183	1203.34	116.48	End Shut-In(2)
184	2024.17	117.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
950.00	CLEAN GASSY OIL 35%GAS 65%OIL	8.44
0.00	2600 GAS IN PIPE	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

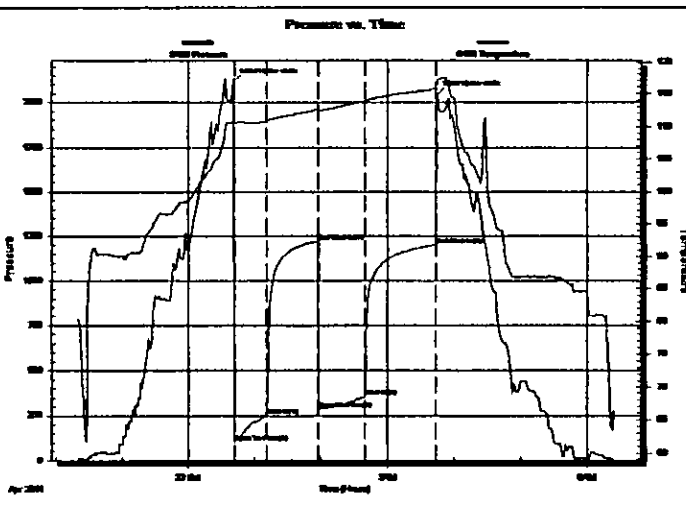
#1 Hess 21C
21/13S31W Gove Co.
 Job Ticket: 15997 DST#: 7
 Test Start: 2011.04.22 @ 22:20:00

GENERAL INFORMATION:

Formation: **LANSING K&L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:42:30
 Time Test Ended: 06:24:00
 Interval: **4142.00 ft (KB) To 4208.00 ft (KB) (TVD)**
 Total Depth: **4208.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **JARED SCHECK**
 Unit No: **3345-140-SCOTT CITY**
 Reference Elevations: **2878.00 ft (KB)**
 2868.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8405 Outside
 Press@RunDepth: 1201.37 psia @ 4205.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.22 End Date: 2011.04.23 Last Calib.: 2011.04.23
 Start Time: 22:20:01 End Time: 06:24:00 Time On Btm: 2011.04.23 @ 00:41:00
 Time Off Btm: 2011.04.23 @ 03:45:00

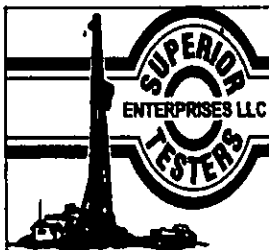
TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 5 MINUTES
 45/INITIAL SHUT IN :BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET 6 MINUTES
 60/FINAL SHUT IN :BOTTOM OF BUCKET



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2120.44	110.92	Initial Hydro-static
1	101.36	110.54	Open To Flow (1)
30	248.18	110.74	Shut-in(1)
76	1222.40	112.54	End Shut-in(1)
77	284.30	112.36	Open To Flow (2)
119	355.12	113.84	Shut-in(2)
183	1201.37	115.78	End Shut-in(2)
184	2043.09	116.95	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
950.00	CLEAN GASSY OIL 35%GAS 65%OIL	8.44
0.00	2600 GAS IN PIPE	0.00

Gas Rates			
	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/D)



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.

#1 Hess 21C

8100 East 22nd St North # 700 Wichita Kansas
67278+3188
(P.O.Box 783188)
ATTN: Pat Deenham

21/13S31W Gove Co.

Job Ticket: 15997

DST#: 7

Test Start: 2011.04.22 @ 22:20:00

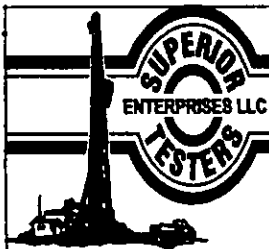
Tool Information

Drill Pipe:	Length: 3616.00 ft	Diameter: 3.80 inches	Volume: 50.72 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: 536.00 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 53.36 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4142.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4127.00	
Hydrolic Tool	5.00			4132.00	
Packer	5.00			4137.00	20.00 Bottom Of Top Packer
Packer	5.00			4142.00	
Perforations	0.00			4142.00	
Change Over Sub	0.75			4142.75	
Drill Pipe	31.50			4174.25	
Change Over Sub	0.75			4175.00	
Perforations	28.00			4203.00	
Recorder	1.00	8400	Inside	4204.00	
Recorder	1.00	8405	Outside	4205.00	
Butl Plug	3.00			4208.00	66.00 Bottom Packers & Anchor

Total Tool Length: 86.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

#1 Hess 21C

8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

21/13S31W Gove Co.

Job Ticket: 15997 DST#: 7

Test Start: 2011.04.22 @ 22:20:00

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ²	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
950.00	CLEAN GASSY OIL 35%GAS 65%OIL	8.443
0.00	2600 GAS IN PIPE	0.000

Total Length: 950.00 ft Total Volume: 8.443 bbl

Num Fluid Samples: 0

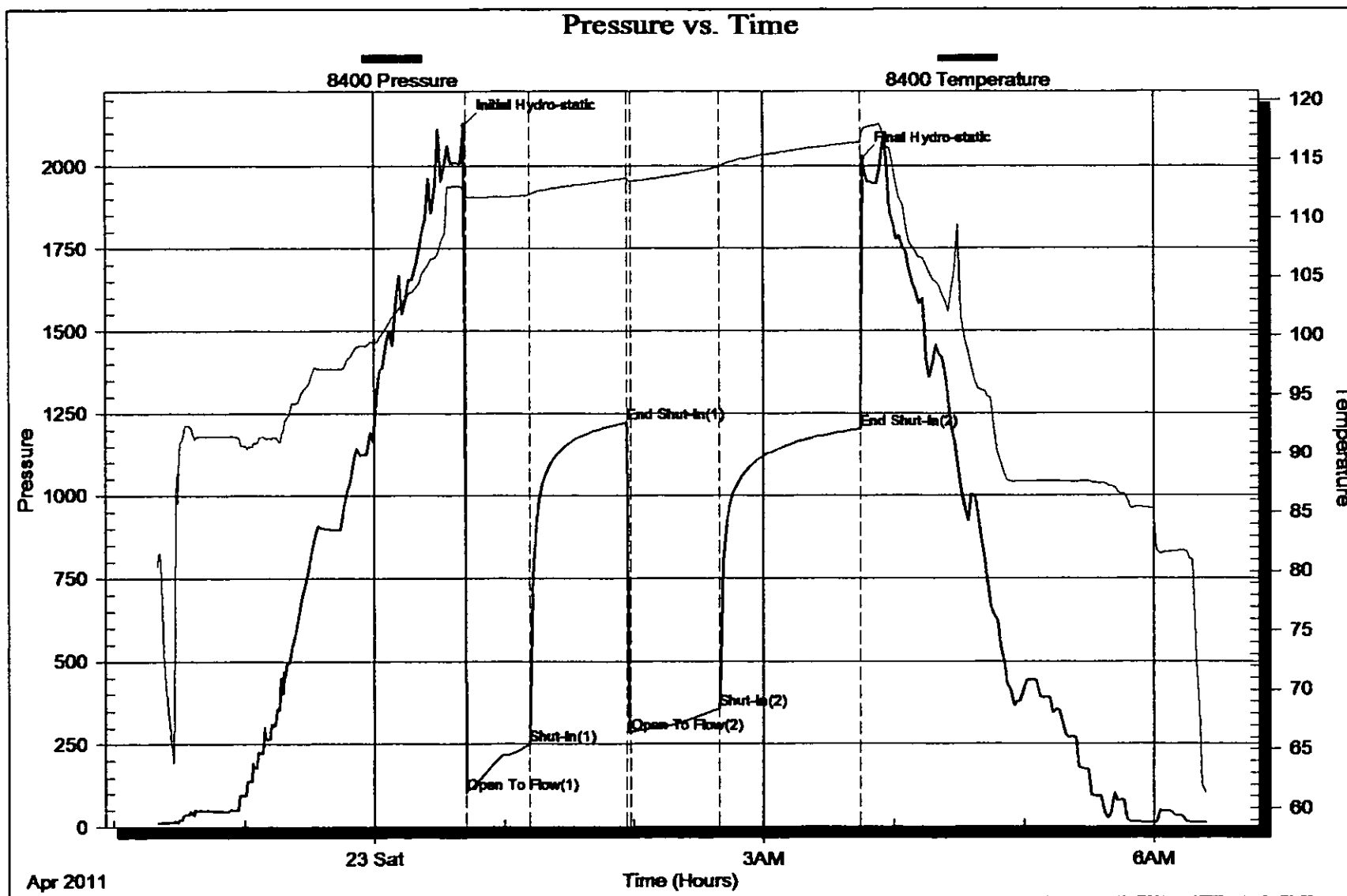
Num Gas Bombs: 0

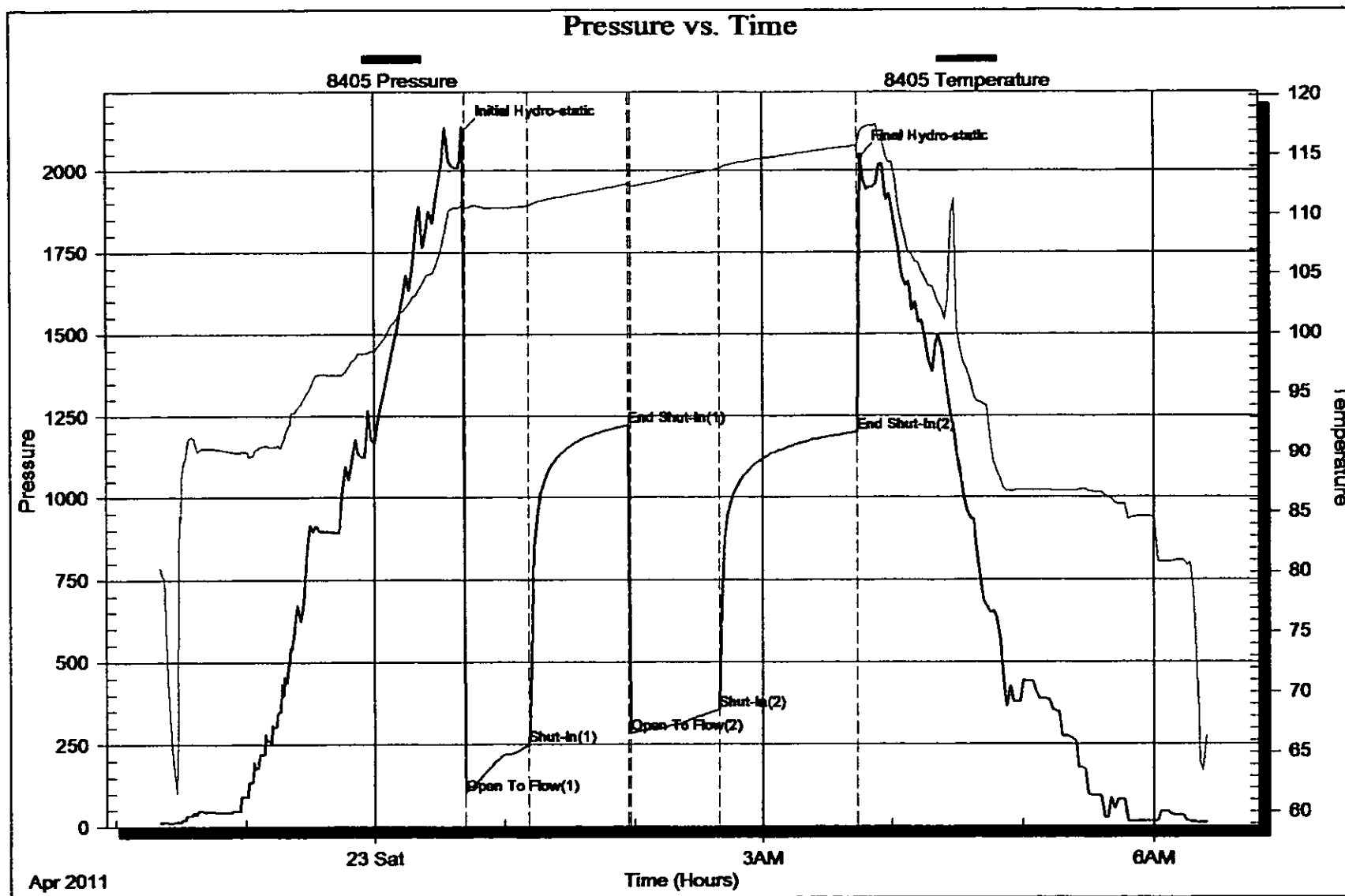
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: GRAVITY 39







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.24 @ 08:30:00

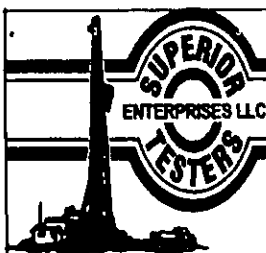
End Date: 2011.04.24 @ 16:04:30

Job Ticket #: 15998 DST #: 8

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

Printed: 2011.04.26 @ 10:10:45

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 8 MYRIC & FT SCOTT 2011.04.24



DRILL STEM TEST REPORT

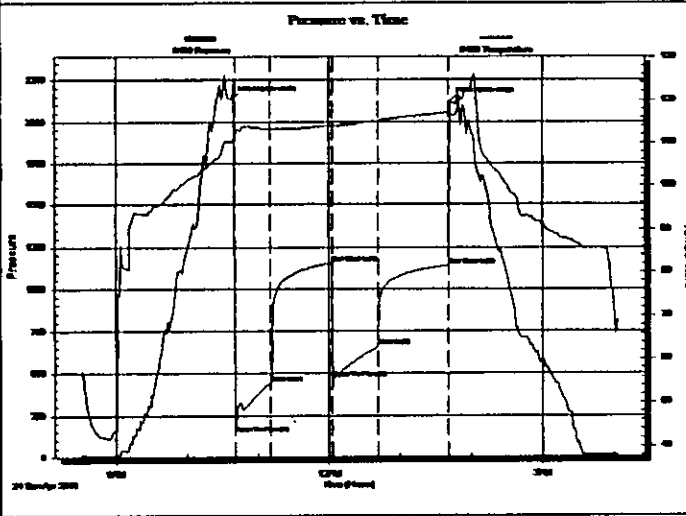
Ritchie Exploration Inc. #1 Hess 21C
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188 21/13S31W Gove Co.
 (P.O.Box 783188) Job Ticket: 15998 DST#: 8
 ATTN: Pat Deenham Test Start: 2011.04.24 @ 08:30:00

GENERAL INFORMATION:

Formation: MYRIC & FT SCOTT
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:40:30
Time Test Ended: 16:04:30
Interval: 4380.00 ft (KB) To 4414.00 ft (KB) (TVD)
Total Depth: 4414.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches
Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: JARED SCHECK
Unit No: 3345-140-SCOTT CITY
Reference Elevations: 2878.00 ft (KB)
 2868.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8400 Inside
Press@RunDepth: 658.09 psia @ 4410.00 ft (KB) Capacity: 5000.00 psia
Start Date: 2011.04.24 End Date: 2011.04.24 Last Calib.: 2011.04.24
Start Time: 08:30:10 End Time: 16:04:30 Time On Btrm: 2011.04.24 @ 10:38:30
 Time Off Btrm: 2011.04.24 @ 13:42:30

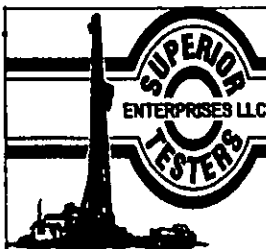
TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTES
 45/INITIAL SHUT IN:1 INCH BLOW BACK
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 6 MINUTES
 60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2135.63	110.36	Initial Hydro-static
2	140.23	111.15	Open To Flow (1)
32	439.85	113.19	Shut-in(1)
84	1151.13	114.08	End Shut-in(1)
85	466.73	113.93	Open To Flow (2)
123	658.09	115.17	Shut-in(2)
183	1137.09	117.04	End Shut-in(2)
184	2120.98	116.72	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
380.00	SLIGHTLEY GAS CUT WATERY OIL	1.87
0.00	20%GAS 20%WATER 60%OIL	0.00
475.00	GASSY OIL CUT WATER	5.24
0.00	30%GAS 20%OIL 50%OIL	0.00
665.00	OIL MUD CUT WATER	9.33
0.00	5%OIL 20%MUD 75%WATER	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mc/d)



DRILL STEM TEST REPORT

Ritchie Exploration Inc.

#1 Hess 21C

8100 East 22nd St North # 700 Wichita Kansas
67278+3188
(P.O.Box 783188)
ATTN: Pat Deenham

21/13S31W Gove Co.

Job Ticket: 15998 DST#: 8
Test Start: 2011.04.24 @ 08:30:00

GENERAL INFORMATION:

Formation: **MYRIC & FT SCOTT**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:40:30

Time Test Ended: 16:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3345-140-SCOTT CITY

Interval: **4380.00 ft (KB) To 4414.00 ft (KB) (TVD)**

Total Depth: 4414.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2878.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8405

Outside

Press@RunDepth: 1137.71 psia @ 4411.00 ft (KB)

Start Date: 2011.04.24

End Date:

2011.04.24

Capacity: 5000.00 psia

Last Calib.: 2011.04.24

Start Time: 08:30:01

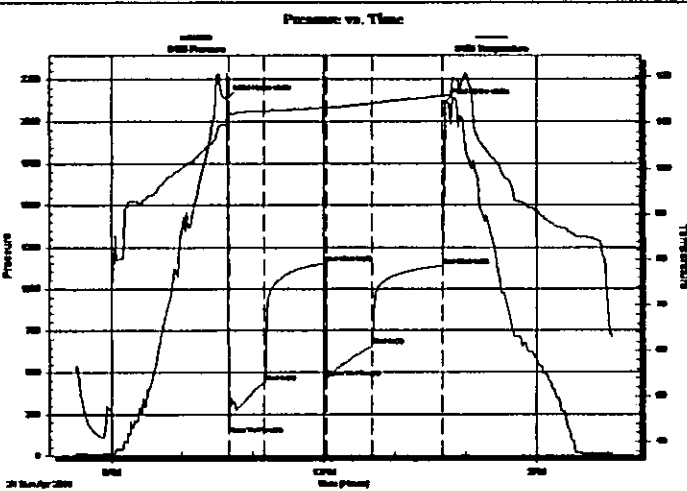
End Time:

16:04:30

Time On Btm: 2011.04.24 @ 10:38:00

Time Off Btm: 2011.04.24 @ 13:42:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTES
45/INITIAL SHUT IN:1 INCH BLOW BACK
45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 6 MINUTES
60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY

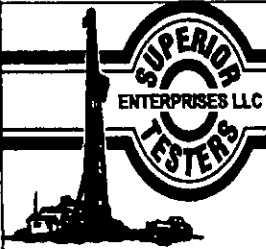
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2137.10	109.68	Initial Hydro-static
2	131.52	109.50	Open To Flow (1)
32	439.30	112.51	Shut-in(1)
84	1151.70	113.42	End Shut-in(1)
85	468.37	113.29	Open To Flow (2)
123	658.12	114.22	Shut-in(2)
183	1137.71	115.91	End Shut-in(2)
185	2113.45	116.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	SLIGHTLY GAS CUT WATERY OIL	1.87
0.00	20%GAS 20%WATER 60%OIL	0.00
475.00	GASSY OIL CUT WATER	5.24
0.00	30%GAS 20%OIL 50%OIL	0.00
665.00	OIL MUD CUT WATER	9.33
0.00	5%OIL 20%MUD 75%WATER	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15998 DST#: 8
 Test Start: 2011.04.24 @ 08:30:00

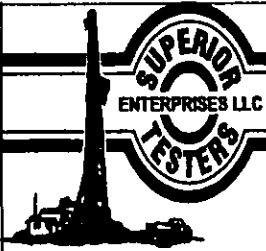
Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.80 inches	Volume: 53.79 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: 536.00 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 56.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4360.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4345.00	
Hydraulic Tool	5.00			4350.00	
Packer	5.00			4355.00	20.00 Bottom Of Top Packer
Packer	5.00			4360.00	
Perforations	0.00			4360.00	
Change Over Sub	0.75			4360.75	
Drill Pipe	31.50			4392.25	
Change Over Sub	0.75			4393.00	
Perforations	16.00			4409.00	
Recorder	1.00	8400	inside	4410.00	
Recorder	1.00	8405	Outside	4411.00	
Bull Plug	3.00			4414.00	54.00 Bottom Packers & Anchor

Total Tool Length: 74.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deeniham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15998 DST#: 8
 Test Start: 2011.04.24 @ 08:30:00

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: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

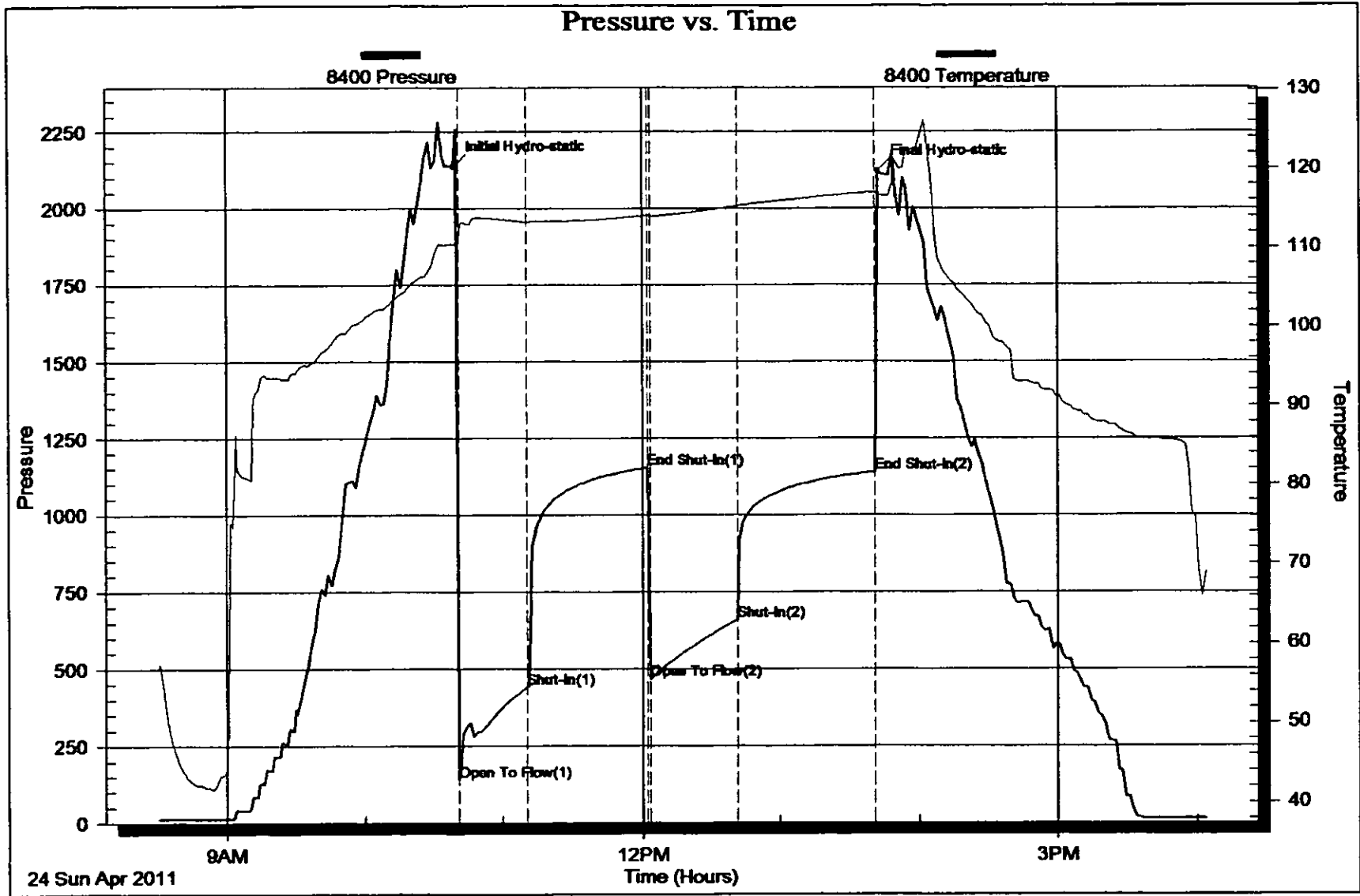
Length ft	Description	Volume bbl
380.00	SLIGHTLEY GAS CUT WATERY OIL	1.869
0.00	20%GAS 20%WATER 60%OIL	0.000
475.00	GASSY OIL CUT WATER	5.242
0.00	30%GAS 20%OIL 50%OIL	0.000
665.00	OIL MUD CUT WATER	9.328
0.00	5%OIL 20%MUD 75%WATER	0.000
0.00	CHLORIDES 41,000	0.000
0.00	RESISTIVITY .1 @76 DEGREES	0.000

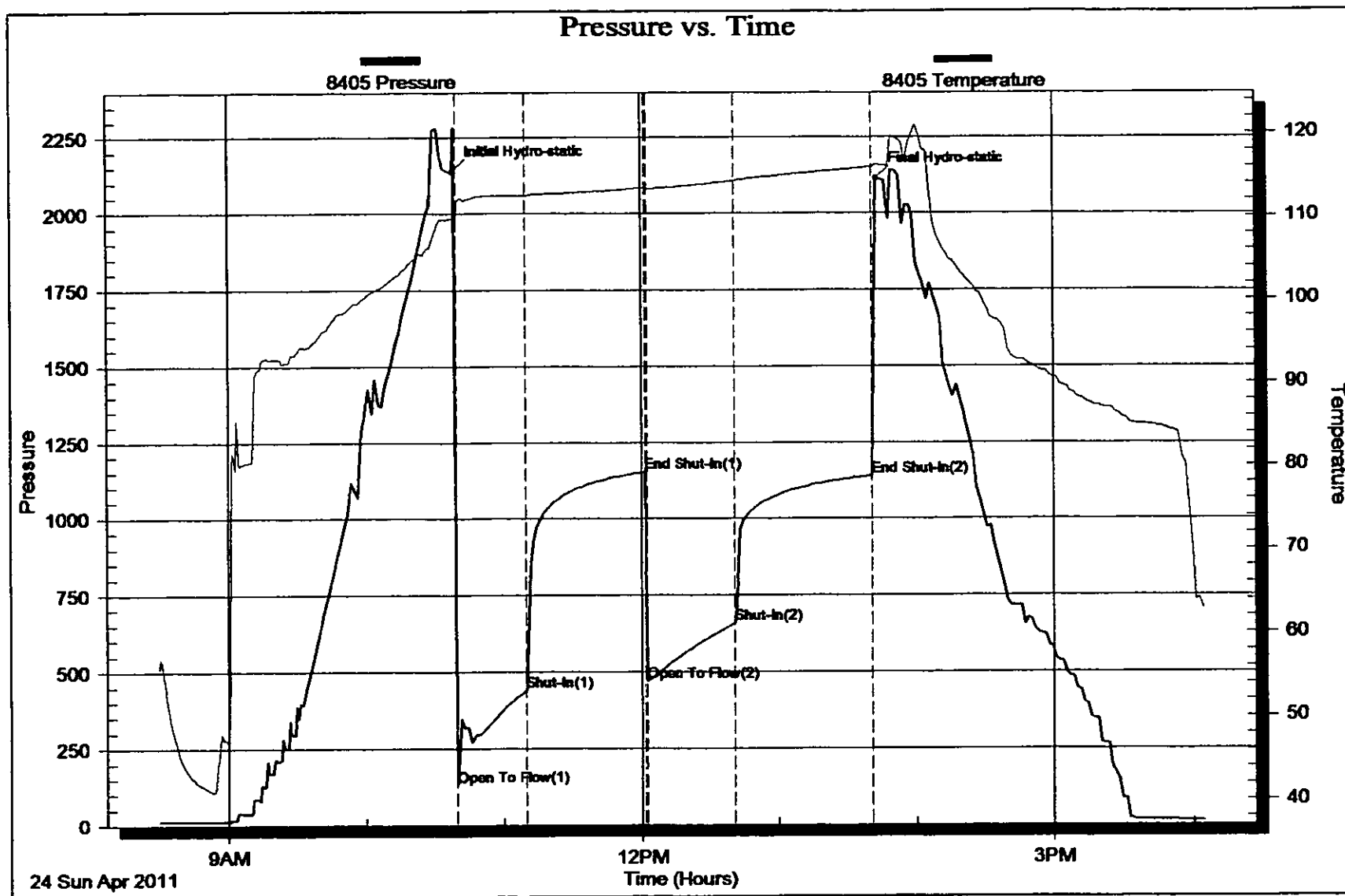
Total Length: 1520.00 ft Total Volume: 16.439 bbl

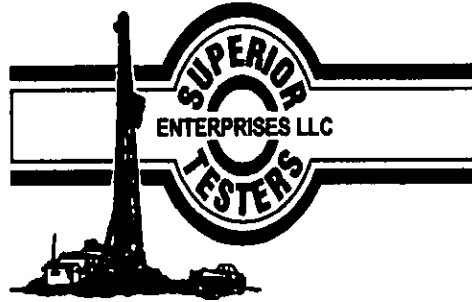
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: CHLORIDES 41,000/ RUINED PACKER







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd St North # 700 Wichita
Kansas 67278+3188
(P.O.Box 783188)

ATTN: Pat Deeniham

21/13S31W Gove Co.

#1 Hess 21C

Start Date: 2011.04.25 @ 00:55:00

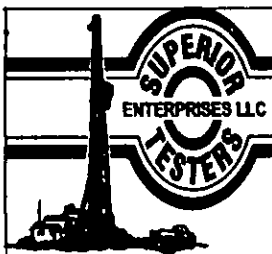
End Date: 2011.04.25 @ 08:26:30

Job Ticket #: 15999 DST #: 9

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

Printed: 2011.04.26 @ 10:08:28

Ritchie Exploration Inc. #1 Hess 21C 21/13S31W Gove Co. DST # 9 CHER/JOHNSON 2011.04.25



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

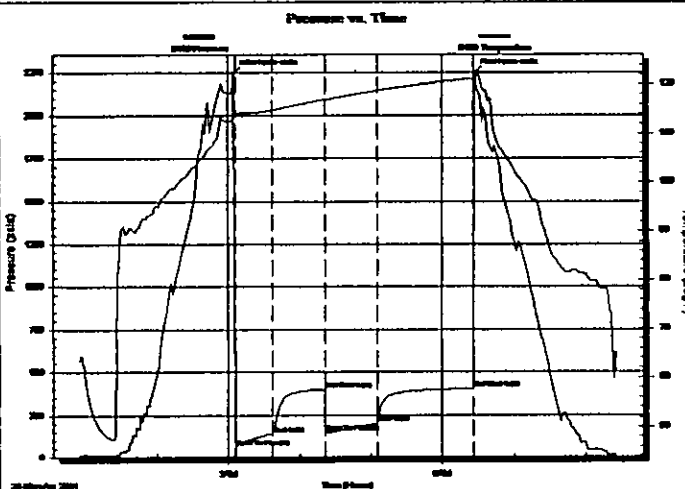
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15999 DST#: 9
 Test Start: 2011.04.25 @ 00:55:00

GENERAL INFORMATION:

Formation: **CHER/JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:06:00
 Time Test Ended: 08:26:30
 Interval: **4418.00 ft (KB) To 4477.00 ft (KB) (TVD)**
 Total Depth: **4477.00 ft (KB) (TVD)**
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 33245-SCOTT CITY-140
 Reference Elevations: 2878.00 ft (KB)
 2868.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8400** Inside
 Press@RunDepth: 204.16 psia @ 4473.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.04.25 End Date: 2011.04.25 Last Calib.: 2011.04.25
 Start Time: 00:55:10 End Time: 08:26:30 Time On Btrr: 2011.04.25 @ 03:04:30
 Time Off Btrr: 2011.04.25 @ 06:27:00

TEST COMMENT: 30/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 20 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN :FAIR BLOW BUILT BOTTOM OF BUCKET IN 15 MINUTES
 60/FINAL SHUT IN:1 1/2 INCH SINTO BUCKET WATER



PRESSURE SUMMARY

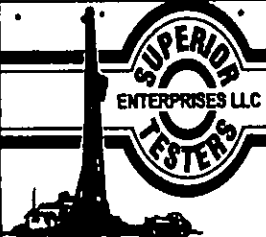
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2248.17	112.87	Initial Hydro-static
2	59.20	113.87	Open To Flow (1)
33	136.76	114.66	Shut-in(1)
77	396.50	116.93	End Shut-in(1)
78	146.82	116.85	Open To Flow (2)
122	204.16	118.70	Shut-in(2)
202	399.28	121.11	End Shut-in(2)
203	2246.53	122.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	HEAVY OIL CUT MUD 5% GAS 55% OIL	411.87 UD
0.00	95 FEET GAS IN PIPE	0.00

Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (Mcft)



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

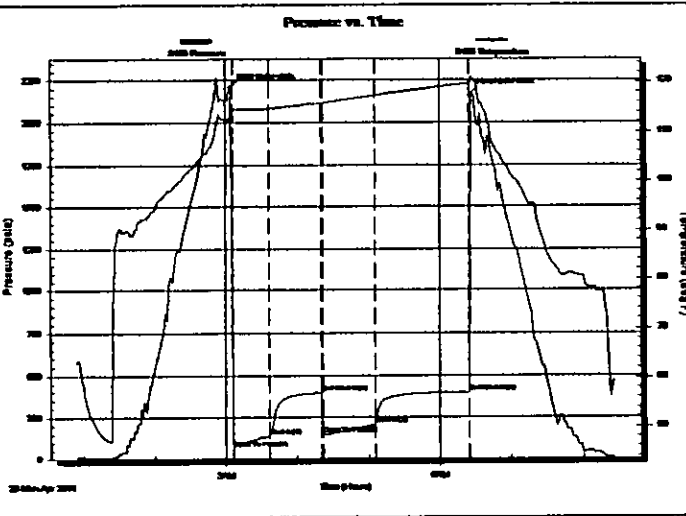
#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15999 DST#: 9
 Test Start: 2011.04.25 @ 00:55:00

GENERAL INFORMATION:

Formation: **CHER/JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:06:00
 Time Test Ended: 08:26:30
 Interval: **4418.00 ft (KB) To 4477.00 ft (KB) (TVD)**
 Total Depth: **4477.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 33245-SCOTT CITY-140
 Reference Elevations: 2878.00 ft (KB)
 2868.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: **8405** Outside
 Press@RunDepth: 399.70 psia @ 4474.00 ft (KB) Capacity: 50000.00 psia
 Start Date: 2011.04.25 End Date: 2011.04.25 Last Calib.: 2011.04.25
 Start Time: 00:55:01 End Time: 08:26:00 Time On Btm: 2011.04.25 @ 03:05:00
 Time Off Btm: 2011.04.25 @ 06:26:30

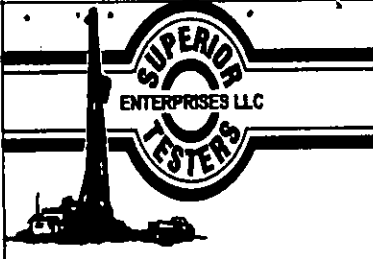
TEST COMMENT: 30/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 20 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 15 MINUTES
 60/FINAL SHUT IN:1 1/2 INCH SINTO BUCKET WATER



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2208.84	114.14	Initial Hydro-static
1	67.23	113.99	Open To Flow (1)
32	138.16	114.63	Shut-in(1)
76	396.66	115.87	End Shut-in(1)
77	149.23	115.85	Open To Flow (2)
121	205.96	117.24	Shut-in(2)
200	399.70	119.57	End Shut-in(2)
202	2168.13	121.08	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
380.00	HEAVY OIL CUT MUD 5%GAS 55%OIL	411.87UD
0.00	95 FEET GAS IN PIPE	0.00

Gas Rates			
	Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15999 DST#: 9
 Test Start: 2011.04.25 @ 00:55:00

Tool Information

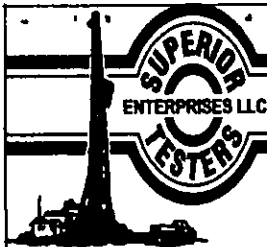
Drill Pipe:	Length: 3893.00 ft	Diameter: 3.80 inches	Volume: 54.61 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 536.00 ft	Diameter: 2.25 inches	Volume: 2.64 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.25 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4418.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	59.00 ft			
Tool Length:	79.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-in Tool	5.00			4403.00	
Hydraulic Tool	5.00			4408.00	
Packer	5.00			4413.00	20.00 Bottom Of Top Packer
Packer	5.00			4418.00	
Perforations	21.00			4439.00	
Change Over Sub	0.75			4439.75	
Drill Pipe	31.50			4471.25	
Change Over Sub	0.75			4472.00	
Perforations	0.00			4472.00	
Recorder	1.00	8400	Inside	4473.00	
Recorder	1.00	8405	Outside	4474.00	
Bull Plug	3.00			4477.00	59.00 Bottom Packers & Anchor

Total Tool Length: 79.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd St North # 700 Wichita Kansas
 67278+3188
 (P.O.Box 783188)
 ATTN: Pat Deenham

#1 Hess 21C
 21/13S31W Gove Co.
 Job Ticket: 15999 DST#: 9
 Test Start: 2011.04.25 @ 00:55:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 58.00 sec/qt	Cushion Volume:		
Water Loss: 7.20 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	HEAVY OIL CUT MUD 5%GAS 55%OIL 40%N	1.869
0.00	95 FEET GAS IN PIPE	0.000

Total Length: 380.00 ft Total Volume: 1.869 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

