



KANSAS CORPORATION COMMISSION 1074535  
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 # 33186  
Name: LB Exploration, Inc.  
Address 1: 2135 2ND RD  
Address 2: \_\_\_\_\_  
City: HOLYROOD State: KS Zip: 67450 + 9021  
Contact Person: Michael Petermann  
Phone: ( 785 ) 252-8034  
CONTRACTOR: License # 33905  
Name: Royal Drilling Inc  
Wellsite Geologist: James C. Musgrove  
Purchaser: \_\_\_\_\_

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

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
3/16/2011    3/22/2011    3/22/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-009-25528-00-00  
Spot Description: \_\_\_\_\_  
   NW SW SW Sec. 6 Twp. 18 S. R. 11  East  West  
990 Feet from  North /  South Line of Section  
330 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Barton  
Lease Name: Hayden Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: NA  
Elevation: Ground: 1835 Kelly Bushing: 1842  
Total Depth: 3510 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 369 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 64000 ppm Fluid volume: 1280 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Kopfman, Inc. dba H&W Oil Company  
Lease Name: BOXBERGER A License #: 33700  
Quarter NW Sec. 32 Twp. 13 S. R. 14  East  West  
County: Russell Permit #: D23310

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanna Garrison Date: 02/20/2012



1074535

Operator Name: LB Exploration, Inc. Lease Name: Hayden Well #: 1  
 Sec. 6 Twp. 18 S. R. 11  East  West County: Barton

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Attached</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	369	common	180	2% gel, 3% CC

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	LB Exploration, Inc.
Well Name	Hayden 1
Doc ID	1074535

All Electric Logs Run

Dual Induction
Borehole Compensated Sonic
Dual Compensated Porosity
Microresistivity

Form	ACO1 - Well Completion
Operator	LB Exploration, Inc.
Well Name	Hayden 1
Doc ID	1074535

Tops

Anhydrite	691	1151
Heebner	2964	-1122
Toronto	2984	-1142
Douglas	2999	-1157
Brown Lime	3076	-1234
Lansing	3089	-1247
BKC	3333	-1491
Conglomerate	3345	-1503
Arbuckle	3418	-1576

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67685

No. 4727

Date	3-16-11	Sec.	6	Twp.	18	Range	11	County	Barton	State	Ks	On Location		Finish	11:00 PM
Lease	Hayden		Well No.	#1		Location Hwy K-4 + Camp Aldrich Blk Top, 3/4									
Contractor	Royal Drilling Rig #2						Owner	E/S							
Type Job	Surface						To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.								
Hole Size	12 1/2"		TD	370'		Charge To	LB Exploration								
Csg.	8 5/8"		Depth	369'		Tbg. Size									
Tool			Depth			Street									
Cement Left in Csg.	15'		Shoe Joint	15'		City	State								
Meas Line			Displace	22 1/2 BLS		The above was done to satisfaction and supervision of owner agent or contractor									
<b>EQUIPMENT</b>						Cement Amount Ordered 180 sx Common 3% CC									
Pumptrk	1	No.	Cementier	Beak		2% Gel									
			Helper			Common	180								
Bulktrk	3	No.	Driver	Brian F.		Poz. Mix									
			Driver			Gel.	3								
Bulktrk	p.u.	No.	Driver	Rick		Calcium	6								
			Driver			Mulls									
<b>JOB SERVICES &amp; REMARKS</b>						Remarks: Cement did Circulate.									
Rat Hole						Salt									
Mouse Hole						Flowseal									
Centralizers						Kol-Seal									
Baskets						Mud CLR 48									
D/V or Port Collar						CFL-117 or CD110 CAF 38									
						Sand									
						Handling	187								
						Mileage									
<b>FLOAT EQUIPMENT</b>															
						Guide Shoe									
						Centralizer									
						Baskets									
						AFU Inserts									
						Float Shoe									
						Latch Down									
						Pumptrk Charge	Surface								
						Mileage	25								
Signature <u>Bruce Budny</u>						Tax									
						Discount									
						Total Charge									

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67685

No. 4517

Date	3/22/11	Sec	6	Twp	18	Range	11	County	Pawnee	State	KS	On Location	Finish	
													9:00 AM	
Lease	Hyden		Well No	1		Location	Cyclin, 1W, 1 1/2 E, E into							
Contractor	Royal Drilling		Rig #	2		Owner	To Quality Oilwell Cementing, Inc.							
Type Job	PTA		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed											
Hole Size	7 7/8		T.D	3510'		Charge To	LB Exploration, Inc.							
Csg			Depth			Street								
Tbg Size			Depth			City	State							
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg	All of It		Shoe Joint			Cement Amount Ordered	185 sk 60/40 48 gel 40 ft							
Meas Line			Displace											
<b>EQUIPMENT</b>														
Pumptrk	No	Cement	Holder											
Bulktrk	No	Driver	Driver											
Bulktrk	No	Driver	Driver											
<b>JOB SERVICES &amp; REMARKS</b>														
Remarks:											Common	111		
Rat Hole	30 sk										Poz. Mix	74		
Mouse Hole	15 sk										Gel.	6		
Centralizers											Calcium			
Baskets											Hu/zs			
D/V or Port Collar											Salt			
	3490' - 25 sk										Flowseal	46 ft		
	700' - 25 sk										Kol-Seal			
	125' - 80 sk										Mud CLR	48		
	40' - 10 sk										CFL-117 or CD110 CAF	38		
<b>FLOAT EQUIPMENT</b>														
Sand														
Handling 191														
Mileage														
Guide Shoe														
Centralizer														
Baskets														
AFU Inserts														
Float Shoe														
Latch Down														
3 1/2" Dry Hole Plug														
Pumptrk Charge plug 400 plug														
Mileage 25														
Tax														
Discount														
Total Charge														
Signature	[Handwritten Signature]													

Thank You!!



**DRILL STEM TEST REPORT**

Prepared For **L.B.Exploration**  
2135 2nd Road  
Holyrood Kansas 67450-9021

ATTN: Jim Musgrove

**6-18s-11w Barton**

**Hayden #1**

Start Date 2011 03 20 @ 10:45:00

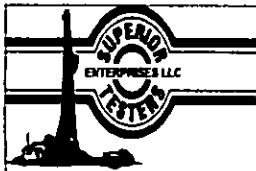
End Date 2011 03 20 @ 00:00:00

Job Ticket # 15785 DST # 1

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

Printed 2011 03 28 @ 12:23:30

L.B.Exploration  
Hayden #1  
6-18s-11w Barton  
DST # 1  
Kansas City "A.P."  
20110320



### DRILL STEM TEST REPORT

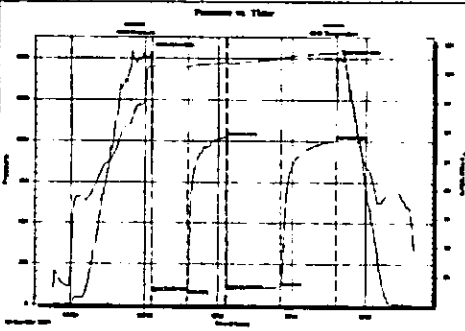
**L B Exploration** **Hayden #1**  
 2135 2nd Road **6-18a-11w Barton**  
 Holyrood Kansas 67450-9021 Job Ticket 15785 **DST#:** 1  
 ATTN: Jim Musgrove Test Start: 2011 03 20 @ 10:45:00

**GENERAL INFORMATION:**

Formation: **Kansas City "A-F"**  
 Deviated: **No Whipstock** ft (KB) Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **00:00:00** Tester: **Gene Budig**  
 Time Test Ended: **00:00:00** Unit No: **3335-**  
 Interval: **3091.00 ft (KB) To 3167.00 ft (KB) (TVD)** Reference Elevations **1842 00 ft (KB)**  
 Total Depth: **3167 00 ft (KB) (TVD)** **1835 00 ft (CP)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GRFC: **7.00 ft**

**Serial #: 4143** Inside  
 Press@RunDepth: **1001.94 psia @ 3162.83 ft (KB)** Capacity: **5000.00 psia**  
 Start Date: **2011 03 20** End Date: **2011 03 20** Last Calib: **2011 03 20**  
 Start Time: **10:45:30** End Time: **15:39:30** Time On Btm: **2011 03 20 @ 12:05:00**  
Time Off Btm: **2011 03 20 @ 14:37:00**

**TEST COMMENT:** 1st Opening: **30 Minutes-weak building blow built to 4 inches into the water**  
 1st Shut-in: **30 Minutes-No blow back**  
 2nd Opening: **45 Minutes-Weak building blow built to 4 inches into the water**  
 2nd Shut-in: **45 Minutes-No blow back**

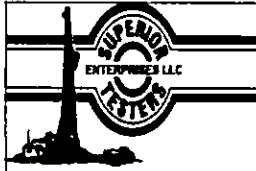


PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1536.85	101.32	Initial Hydro-static
1	75.45	101.21	Open To Flow (1)
30	90.10	101.25	Shut-in(1)
61	1024.30	101.93	End Shut-in(1)
62	91.11	101.88	Open To Flow (2)
106	106.07	102.66	Shut-in(2)
151	1001.94	103.68	End Shut-in(2)
152	1497.18	103.86	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
110.00	Drilling mud	1.54

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





### DRILL STEM TEST REPORT

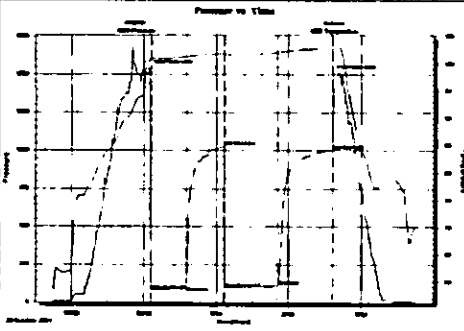
L.B Exploration Hayden #1  
 2135 2nd Road 6-18a-11w Barton  
 Holyrood Kansas 67450-9021 Job Ticket 15785 DST#: 1  
 ATTN: Jim Musgrove Test Start 2011 03 20 @ 10 45 00

**GENERAL INFORMATION:**

Formation: Kansas City "A-F"  
 Deviated: No Whipstock ft (KB)  
 Test Type: Conventional Bottom Hole (hcbh)  
 Time Tool Opened: 00 00 00 Tester: Gene Budg  
 Time Test Ended: 00 00 00 Unit No: 3335-  
 Interval: 3091.00 ft (KB) To 3167.00 ft (KB) (TVD) Reference Elevations: 1842.00 ft (KB)  
 Total Depth: 3167.00 ft (KB) (TVD) 1835.00 ft (CP)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GRCF: 7.00 ft

Serial #: 4005 Outside  
 Press@RunDepth: 1005.93 psia @ 3163.83 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011 03 20 End Date: 2011 03 20 Last Calc: 2011 03 20  
 Start Time: 10 45 30 End Time: 15 45 00 Time On Btm: 2011 03 20 @ 12:04:30  
 Time Off Btm: 2011 03 20 @ 14 36 30

**TEST COMMENT:** 1st Opening 30 Minutes weak building blow built to 4 inches into the water  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 45 Minutes-Weak building blow built to 4 inches into the water  
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min)	Pressure (psia)	Temp (deg F)	Annotation
0	1535.02	100.68	Initial Hydro-static
7	78.19	100.90	Open To Flow (1)
32	102.38	101.21	Shut-in(1)
62	1029.46	101.81	End Shut-in(1)
63	96.07	101.80	Open To Flow (2)
107	110.20	102.02	Shut-in(2)
152	1005.93	102.86	End Shut-in(2)
152	1503.90	102.88	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
110.00	Drilling mud	1.54

Gas Rates		
Flow (mcf)	Pressure (psia)	Gas Rate (MDD)



## DRILL STEM TEST REPORT

TOOL DIAGRAM

L.B Exploration

Hayden #1

2135 2nd Road  
Holyrood Kansas 67450-9021

6-18a-11w Barton

ATTN: Jim Musgrove

Job Ticket 15785 DST#: 1  
Test Start 2011 03 20 @ 10 45 00

### Tool Information

Drill Pipe	Length	3100.00 ft	Diameter	3.80 inches	Volume	43.48 bbl	Tool Weight	2000.00 lb
Heavy Wt. Pipe	Length	0.00 ft	Diameter	2.86 inches	Volume	0.00 bbl	Weight set on Packer	20000.00 lb
Drill Collar	Length	0.00 ft	Diameter	2.25 inches	Volume	0.00 bbl	Weight to Pull Loose	54000.00 lb
					Total Volume	43.48 bbl	Tool Chased	8.00 ft
Drill Pipe Above KB	30.00 ft						String Weight Initial	48000.00 lb
Depth to Top Packer	3091.00 ft						Final	48000.00 lb
Depth to Bottom Packer	ft							
Interval between Packers	75.83 ft							
Tool Length	96.83 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			3071.00		
Shut-In Tool	5.00			3076.00		
Hydroc Tool	5.00			3081.00		
Packer	5.00			3086.00	21.00 Bottom Of Top Packer	
Packer	5.00			3091.00		
Perforations	4.00			3095.00		
Change Over Sub	0.75			3095.75		
Drill Pipe	31.33			3127.08		
Change Over Sub	0.75			3127.83		
Perforations	34.00			3161.83		
Recorder	1.00	4143	Inside	3162.83		
Recorder	1.00	4005	Outside	3163.83		
Bullnose	3.00			3166.83	75.83 Bottom Packers & Anchor	
<b>Total Tool Length:</b>		<b>96.83</b>				



**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

L.B. Exploration	<b>Hayden #1</b>
2135 2nd Road	<b>6-18s-11w Barton</b>
Holyrood Kansas 67450-9021	Job Ticket 15785      DST#: 1
ATTN: Jim Magrove	Test Start: 2011.03.20 @ 10:45:00

**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	48.00 sec/qt	Cushion Volume	bbbl		
Water Loss	8.79 in <sup>2</sup>	Gas Cushion Type			
Resistivity	ohm m	Gas Cushion Pressure	psia		
Salinity	3800.00 ppm				
Filter Cake	1.00 inches				

**Recovery Information**

**Recovery Table**

Length ft	Description	Volume bbbl
110.00	Drilling mud	1.543

Total Length      110.00 ft      Total Volume      1.543 bbl

Num Fluid Samples   0      Num Gas Bombs      0      Serial #

Laboratory Name:      Laboratory Location

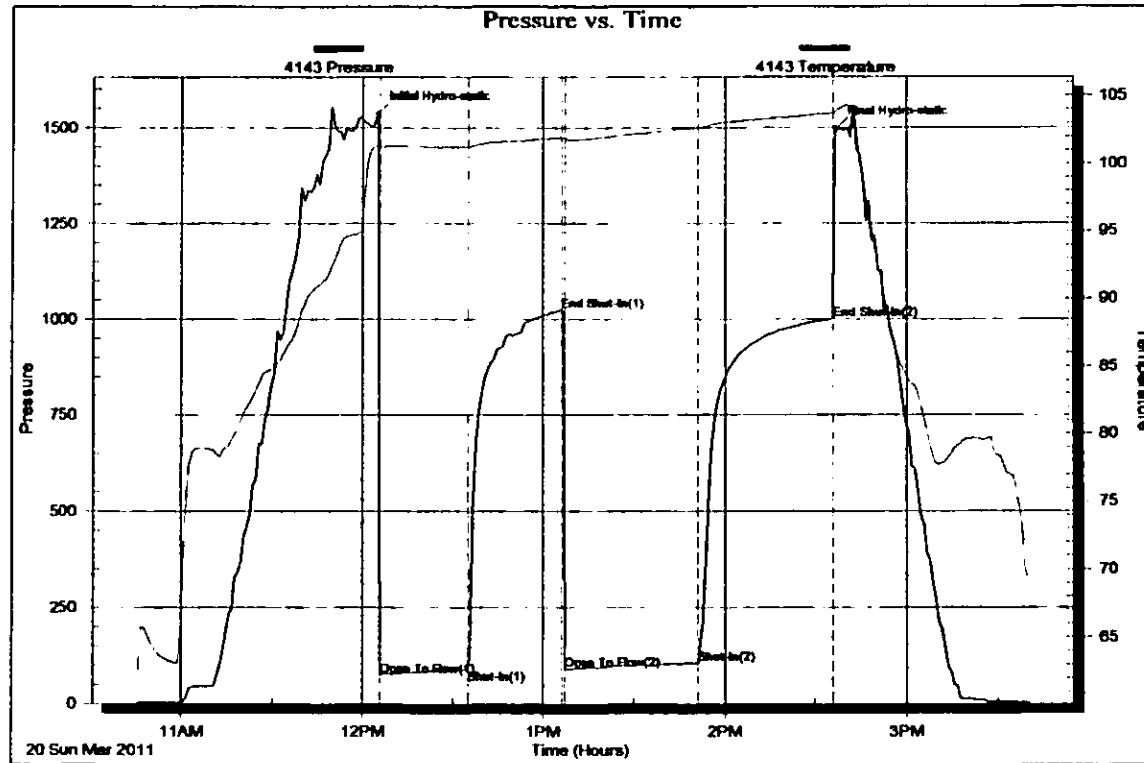
Recovery Comments

Senal # 4143

Inside L.B Exploration

6-18a-11w Barton

DST Test Number: 1

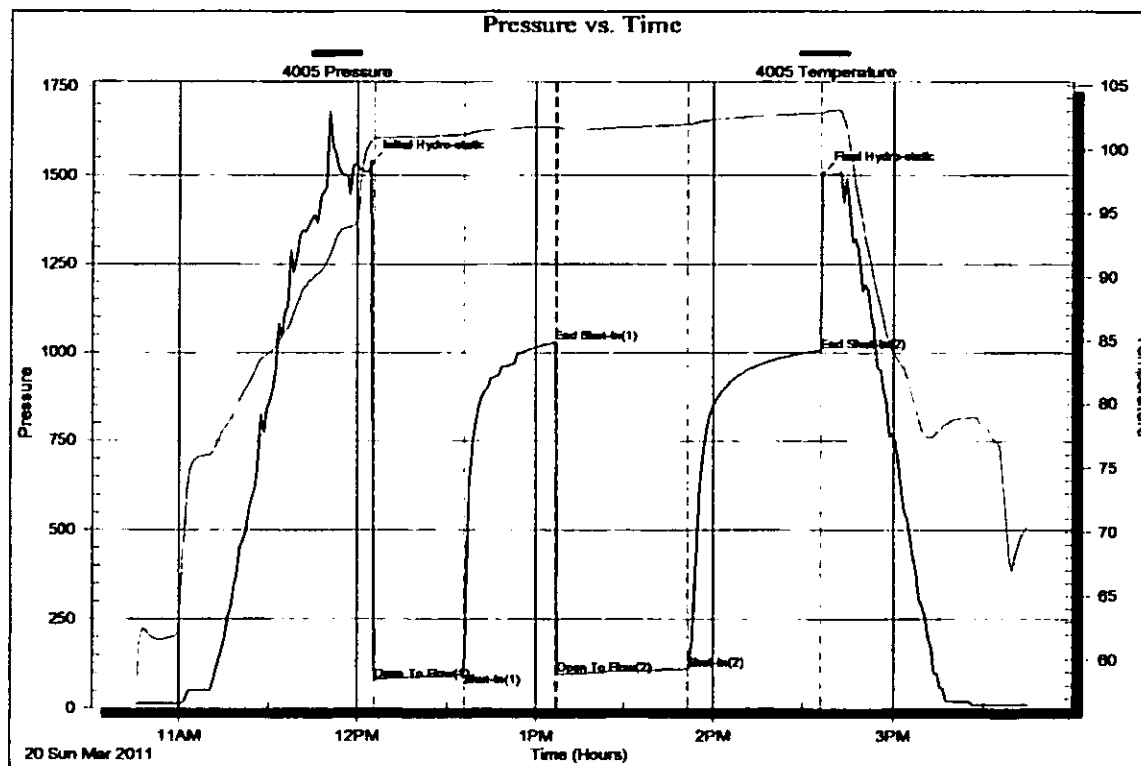


Senal # 4005

Outside L.B Exploration

6-18s-11w Barton

DST Test Number 1





**DRILL STEM TEST REPORT**

Prepared For **L.B.Exploration**  
2135 2nd Road  
Holyrood Kansas 67450-9021

ATTN: Jim Musgrove

**6-18s-11w Barton**

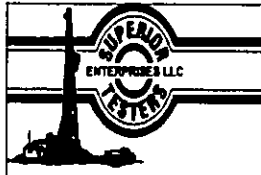
**Hayden #1**

Start Date: 2011 03.21 @ 03:15:00  
End Date: 2011 03.21 @ 00:00:00  
Job Ticket #: 15786      DST #: 2

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-782-6902

Printed 2011 03.28 @ 12:23.18

L.B.Exploration  
Hayden #1  
6-18s-11w Barton  
DST # 2  
Kansas City  
2011 03.21



# DRILL STEM TEST REPORT

L B Exploration  
 2135 2nd Road  
 Holyrood Kansas 67450-8021  
 ATTN: Jim Musgrove

Hayden #1  
 6-18a-11w Barton  
 Job Ticket: 15786 DST#: 2  
 Test Start: 2011 03 21 @ 03 15 00

## GENERAL INFORMATION:

Formation: Kansas City  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00

Interval: 3201.00 ft (KB) To 3300.00 ft (KB) (TVD)  
 Total Depth: 3300.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

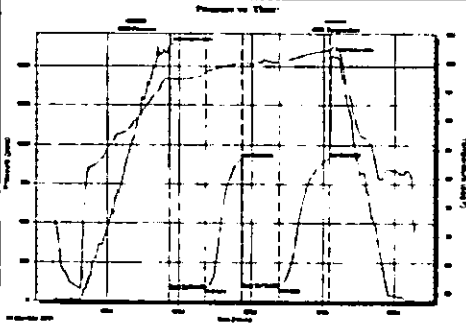
Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Wire No: 3335-39

Reference Elevations: 1842.00 ft (KB)  
 1835.00 ft (CF)  
 KB to GRCF: 7.00 ft

Serial #: 4005 Inside  
 Press@RunDepth: 918.17 psia @ 3296.11 ft (KB)  
 Start Date: 2011 03 21 End Date: 2011 03 21  
 Start Time: 03 15 30 End Time: 06 16 30

Capacity: 5000.00 psia  
 Last Calc: 2011 03 21  
 Time On Btm: 2011 03 21 @ 04 51:00  
 Time Off Btm: 2011 03 21 @ 07 06 30

**TEST COMMENT**  
 1st Opening: 30 Minutes weak blow for 23 minutes and died  
 1st Shut-in: 30 Minutes-No blow back  
 2nd Opening: 30 Minutes-Weak blow for 7 minutes and died  
 2nd Shut-in: 45 Minutes -No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1625.61	97.48	Initial Hydro-static
1	71.06	97.53	Open To Flow (1)
31	79.93	98.42	Shut-In(1)
61	915.62	100.11	End Shut-In(1)
62	82.32	100.07	Open To Flow (2)
92	85.52	100.35	Shut-In(2)
135	918.17	102.33	End Shut-In(2)
136	1559.96	102.50	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	Drilling mud	0.56

Gas Rates		
Flow (inches)	Pressure (psia)	Gas Rate (MCFG)



# DRILL STEM TEST REPORT

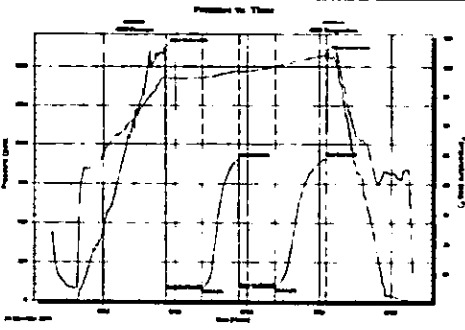
LB Exploration Hayden #1  
 2135 2nd Road 6-18a-11w Barton  
 Holyrood Kansas 67450-9021 Job Ticket: 15786 OST#: 2  
 ATTN: Jim Magrove Test Start: 2011 03 21 @ 03 15 00

## GENERAL INFORMATION:

Formation Kansas City  
 Deviated No Whipstock ft (KB) Test Type Conventional Bottom Hole (Instal)  
 Time Tool Opened 00:00:00 Tester Gene Budig  
 Time Test Ended 00:00:00 Unit No 3335-39  
 Interval: 3201.00 ft (KB) To 3300.00 ft (KB) (TVD) Reference Elevations 1842.00 ft (KB)  
 Total Depth 3300.00 ft (KB) (TVD) 1835.00 ft (CP)  
 Hole Diameter 7.88 inches Hole Condition Fair KB to GRPCF 7.00 ft

Serial #: 4123 Outside  
 Press@RunDepth 915.55 psia 3297.11 ft (KB) Capacity 5000.00 psia  
 Start Date 2011 03 21 End Date 2011 03 21 Last Calc 2011 03 21  
 Start Time 03 17:30 End Time 06 19:30 Time On Btm 2011 03 21 @ 04 51 29  
Time Off Btm 2011 03 21 @ 07 07 30

**TEST COMMENT:** 1st Opening 30 Minutes weak blow for 23 minutes and died  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 30 Minutes-Weak blow for 7 minutes and died  
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min)	Pressure (psia)	Temp (deg F)	Annotation
0	1821.06	98.67	Initial Hydro-static
1	88.10	98.60	Open To Flow (1)
31	77.76	98.35	Shut-In (1)
62	913.40	99.44	End Shut-In (1)
62	78.65	99.41	Open To Flow (2)
92	84.85	100.26	Shut-In (2)
135	915.55	102.14	End Shut-In (2)
137	1578.89	103.10	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	Drilling mud	0.56

Gas Rates			
	Core (inches)	Pressure (psia)	Gas Rate (MDD)





# DRILL STEM TEST REPORT

TOOL DIAGRAM

L.B. Exploration  
 2135 2nd Road  
 Holyrood Kansas 67450-9021  
 ATTN: Jim Musgrove


Hayden #1  
 6-18a-11w Barton  
 Job Ticket: 15786  
 Test Start: 2011 03 21 @ 03 15:00

**Tool Information**

Drill Pipe	Length: 3194.00 ft	Diameter: 3.80 inches	Volume: 44.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			Total Volume: 44.80 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB	14.00 ft			String Weight Initial: 48000.00 lb
Depth to Top Packer	3201.00 ft			Final: 48000.00 lb
Depth to Bottom Packer	ft			
Interval between Packers	99.11 ft			
Tool Length	120.11 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			3181.00	
Shut-In Tool	5.00			3186.00	
Hydroic Tool	5.00			3191.00	
Packer	5.00			3196.00	21.00 Bottom Of Top Packer
Packer	5.00			3201.00	
Perforations	5.00			3206.00	
Change Over Sub	0.75			3206.75	
Drill Pipe	60.61			3267.36	
Change Over Sub	0.75			3268.11	
Perforations	27.00			3295.11	
Recorder	1.00	4005	Inside	3296.11	
Recorder	1.00	4123	Outside	3297.11	
Bullhose	3.00			3300.11	99.11 Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>120.11</b>			

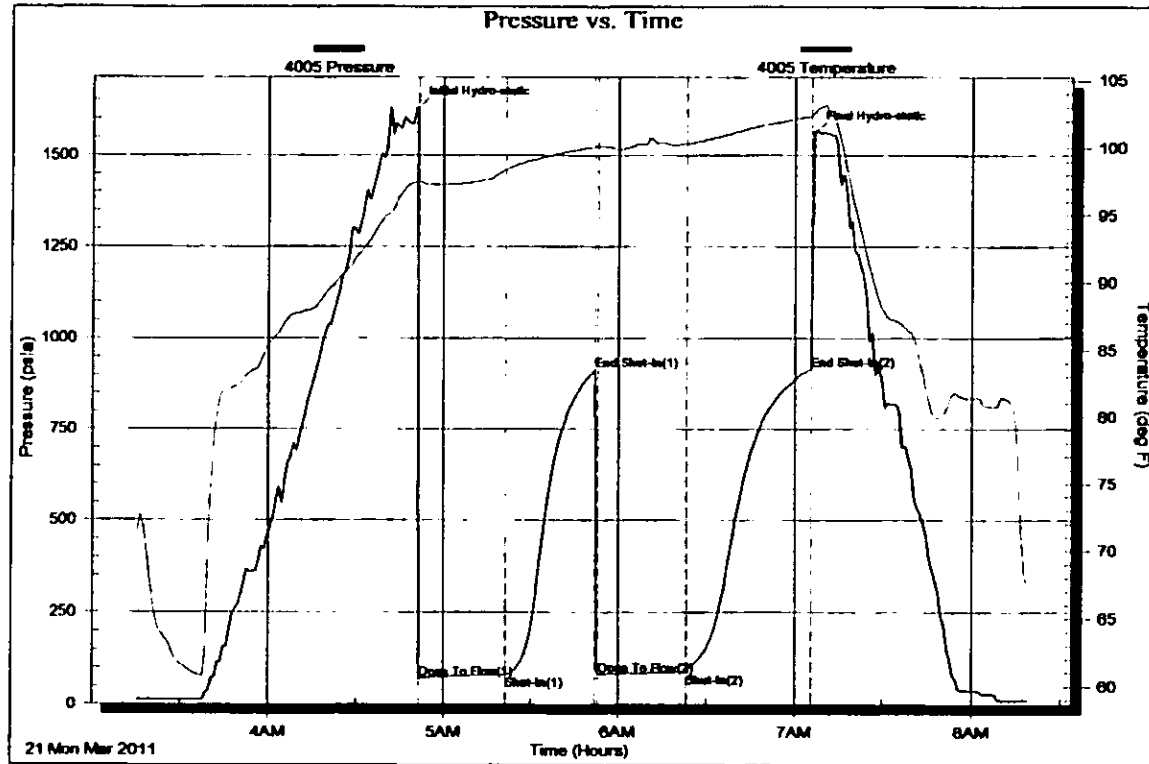
	<b>DRILL STEM TEST REPORT</b>		<b>FLUID SUMMARY</b>
	L B Exploration 2135 2nd Road Holyrood Kansas 67450-9021 ATTN: Jim Musgrove	Hayden #1 6-18a-11w Barton Job Ticket 15786 Test Start 2011.03.21 @ 03:15:00	
<b>Mud and Cushion Information</b>			
Mud Type:	Gel Chem	Cushion Type	Oil API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft
Viscosity:	48.00 sec/qt	Cushion Volume:	bbbl
Water Loss:	8.29 in <sup>3</sup>	Gas Cushion Type:	
Resistivity:	ohm.m	Gas Cushion Pressure:	psia
Salinity:	3800.00 ppm		
Filter Cake:	1.00 inches		
<b>Recovery Information</b>			
<b>Recovery Table</b>			
Length ft	Description	Volume bbbl	
40.00	Drilling mud	0.561	
Total Length: 40.00 ft		Total Volume: 0.561 bbl	
Num Fluid Samples: 0		Num Gas Bombs: 0	
Laboratory Name:		Laboratory Location:	
Recovery Comments:			

Serial # 4005

Inside L.B Exploration

6-18s-11w Barton

DGT Test Number 2



Senal # 4123

Outside L.B Exploration

6-16s-11w Barton

DST Test Number: 2

