OPERATOR

Company:	CARRIE EXPLORATION		
Address:	210 W 22ND HAYS, KS 67601		
Contact Geologist:	RON HEROLD		
Contact Phone Nbr:	(785) 625-9318		
Well Name:	DOXON/BUNKER C #1		
Location:	N2 SW SW NE 23-12S-22W	API:	15-195-22761
Pool:		Field:	OGALLAH NORTH
State:	KANSAS	Country:	USA

Scale 1:240 Imperial

Well Name:	DOXON/BUNKER C #1		
Surface Location:	N2 SW SW NE 23-12S-22W		
Bottom Location:			
API:	15-195-22761		
License Number:	6768		
Spud Date:	2/1/2012	Time:	3:34 PM
Region:	TREGO		
Drilling Completed:	2/10/2012	Time:	1:47 AM
Surface Coordinates:	2194' FNL & 2310' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	2362.00ft		
K.B. Elevation:	2369.00ft		
Logged Interval:	0.00ft	To:	4139.00ft
Total Depth:	4136.00ft		
Formation:			
Drilling Fluid Type:	FRESH WATER/CHEMICAL GEL		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-99.7312099	Latitude:	38.9941957
N/S Co-ord:	2194' FNL		
E/W Co-ord:	2310' FEL		

LOGGED BY

SOLUTIONS CONSULTING

Company:	SOLUTIONS CONSULTING		
Address:	108 W 35TH HAYS, KS 67601		
Phone Nbr:	(785) 259-3737		
Logged By:	Geologist	Name:	JEFF LAWLER

CONTRACTOR

Contractor:	SOUTHWIND DRILLING, INC.		
Rig #:	4		
Rig Type:	MUD ROTARY		
Spud Date:	2/1/2012	Time:	3:34 PM
TD Date:	2/10/2012	Time:	1:47 AM
Rig Release:	2/12/2012	Time:	12:00 AM

ELEVATIONS

K.B. Elevation:	2369.00ft	Ground Elevation:	2362.00ft
K.B. to Ground:	7.00ft		

NOTES

NOTES

DECISION WAS MADE BY THE OPERATOR TO RUN 5 1/2" X 15.5# PRODUCTION CASING TO FURTHER EVALUATE ZONES FAVORABLE WITH LOG ANALYSIS AND DST RECOVERY.

RESPECTFULLY SUBMITTED,
JEFF LAWLER

					P&A				P&A				P&A				P&A				P&A			
									PRODUCER NAME				PRODUCER NAME				PRODUCER NAME				PRODUCER NAME			
	DOXON/BUNKER C #1				STANTON #1				NIXON #2				NIXON #1				STECKLINE #1				STECKLINE #2			
	N2 SW SW NE 23-12S-23W				N2 NE SW 23-12-22				LEGAL				NE SW NW 23-12-22				NW NW SW				NW NW SW			
	KB	2369			KB	2383			KB	2386			KB	2375			KB	2382			KB	2386		
	LOG TOPS		SAMPLE TOPS		COMP. CARD				COMP. CARD				COMP. CARD				COMP. CARD				COMP. CARD			
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.		DEPTH	DATUM	CORR.		DEPTH	DATUM	CORR.		DEPTH	DATUM	CORR.		DEPTH	DATUM	CORR.	
ANHYDRITE TOP	1782	587	1782	587	1796	587	+	0	1803	583	+	4	1802	573	+	14	1800	582	+	5	1805	581	+	6
BASE	1827	542	1803	566	1840	543	+	23	1847	539	+	27					1846	536	+	30				
TARKIO																								
TOPEKA	3405	-1036	3405	-1036	3407	-1024	-	12	3410	-1024	-	12	3409	-1034	-	2	3408	-1026	-	10	3420	-1034	-	2
OREAD																								
HEEBNER SHALE	3624	-1255	3623	-1254	3625	-1242	-	12	3625	-1239	-	15	3626	-1251	-	3	3626	-1244	-	10	3626	-1240	-	14
TORONTO	3645	-1276	3642	-1273	3639	-1256	-	17	3644	-1258	-	15					3645	-1263	-	10	3658	-1272	-	1
DOUGLAS																								
BROWN LIME																								
LKC	3658	-1289	3658	-1289	3655	-1272	-	17	3658	-1272	-	17	3660	-1285	-	4	3659	-1277	-	12	3671	-1285	-	4
BKC	3893	-1524	3898	-1529	3890	-1507	-	22	3901	-1515	-	14	3900	-1525	-	4	3900	-1518	-	11	3913	-1527	-	2
MARMATON					3912	-1529																		
MARMATON/PAWNEE	3983	-1614	3996	-1627	3986	-1603	-	24	3992	-1606	-	21	3988	-1613	-	14	3990	-1608	-	19	4002	-1616	-	11
VIOLA																								
SIMPSON SHALE																								
ARBUCKLE	4059	-1690	4063	-1694	4064	-1681	-	13	4079	-1693	-	1	4070	-1695	+	1	4070	-1688	-	6	4065	-1679	-	15
RTD			4136	-1767					4082	-1696	-	71					4102	-1720	-	47	4089	-1703	-	64
LTD	4139	-1770																						

DST #1 LKC "A_B"

SUPERIOR ENTERPRISES LLC TESTERS

DRILL STEM TEST REPORT

Carrie Explortation

210 West 22ND
Hays, Kansas 67601

ATTN: Jeff Lawler

23/12S/22W/Trego

Doxon/Bunker #C-1

Job Ticket: 17152 **DST#: 1**

Test Start: 2012.02.06 @ 15:40:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:00:00
Time Test Ended: 22:12:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Hays/50

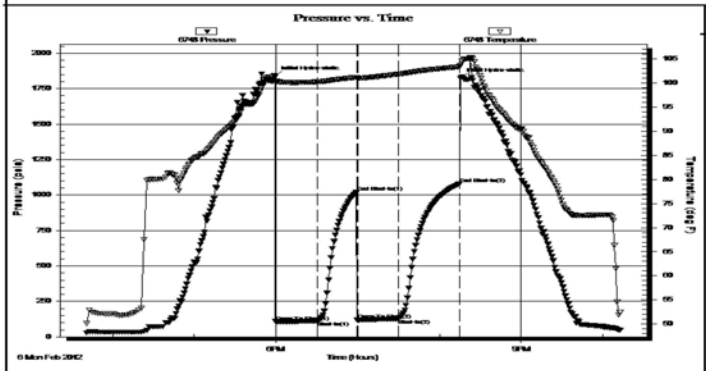
Interval: 3648.00 ft (KB) To 3690.00 ft (KB) (TVD)
Total Depth: 3690.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2369.00 ft (KB)
2362.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6748 **Inside**
Press@RunDepth: 127.97 psia @ 3686.00 ft (KB)
Start Date: 2012.02.06 End Date: 2012.02.06
Start Time: 15:40:00 End Time: 22:12:30

Capacity: 5000.00 psia
Last Calib.: 2012.02.06
Time On Btm: 2012.02.06 @ 17:59:00
Time Off Btm: 2012.02.06 @ 20:15:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1 inch
1ST Shut In 30 Minutes/No blow back
2ND Open 30 Minutes/No blow /Flush tool/Very weak surface blow /Blow died in 3 minutes
2ND Shut In 30 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1839.66	101.32	Initial Hydro-static
1	106.54	100.41	Open To Flow (1)
31	112.52	100.19	Shut-In(1)
60	1020.01	101.12	End Shut-In(1)
61	119.11	100.92	Open To Flow (2)
91	127.97	101.76	Shut-In(2)
136	1079.78	103.31	End Shut-In(2)
137	1823.97	103.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

Gas Rates

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

DST #2 LKC 'C'

DRILL STEM TEST REPORT

Carrie Explortation

210 West 22ND
Hays, Kansas 67601

ATTN: Jeff Lawler

23/12S/22W/Trego

Doxon/Bunker #C-1

Job Ticket: 17153 **DST#: 2**

Test Start: 2012.02.07 @ 06:19:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:27:30
Time Test Ended: 12:59:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 3325 Hays/50

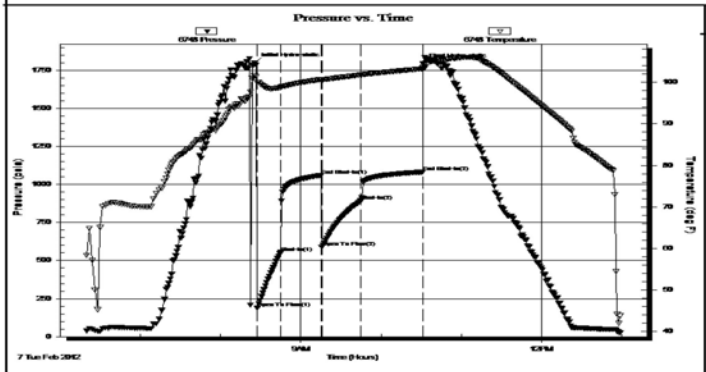
Interval: 3685.00 ft (KB) To 3715.00 ft (KB) (TVD)
Total Depth: 3715.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2369.00 ft (KB)
2362.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6748 **Inside**
Press@RunDepth: 894.10 psia @ 3711.00 ft (KB)
Start Date: 2012.02.07 End Date: 2012.02.07
Start Time: 06:19:00 End Time: 12:59:00

Capacity: 5000.00 psia
Last Calib.: 2012.02.07
Time On Btm: 2012.02.07 @ 08:25:30
Time Off Btm: 2012.02.07 @ 10:31:30

TEST COMMENT: 1ST Open 15 Minutes/Strong blow /Blow to bottom of bucket in 2 minutes
1ST Shut In 30 Minutes/No blow back
2ND Open 30 Minutes/Strong blow /Blow to bottom of bucket in 2 minutes
2ND Shut In 45 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1797.20	101.64	Initial Hydro-static
3	190.33	99.93	Open To Flow (1)
20	554.18	98.77	Shut-In(1)
50	1059.75	100.67	End Shut-In(1)
50	589.32	100.45	Open To Flow (2)
80	894.10	101.77	Shut-In(2)
126	1081.78	103.26	End Shut-In(2)
126	1792.75	103.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	Muddy Water	2.35
0.00	Mud 50% Water 50%	0.00
1230.00	Muddy Water	17.99
0.00	Mud 5% Water 95%	0.00
0.00	Recovery Chlorides 108000 ppm	0.00
0.00	Recov. Resist. .11 ohms @ 68 degrees	0.00

Gas Rates

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

DST #3 MARMATON/PAWNEE

DRILL STEM TEST REPORT

Carrie Explortation

210 West 22ND
Hays, Kansas 67601

ATTN: Jeff Lawler

23/12S/22W/Trego

Doxon/Bunker #C-1

Job Ticket: 17154 **DST#: 3**

Test Start: 2012.02.09 @ 20:56:00

GENERAL INFORMATION:

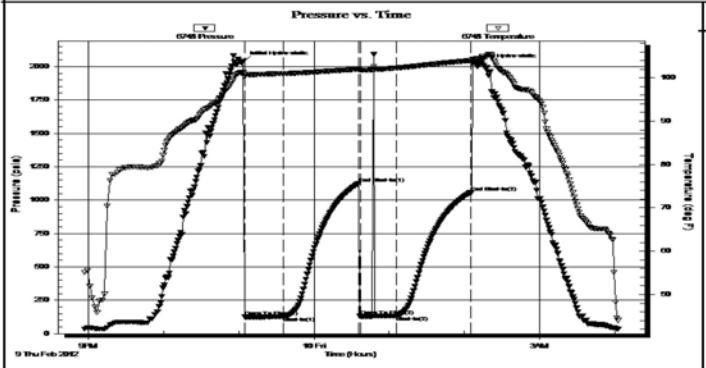
Formation: **Marmaton/Pawnee**

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 23:05:00 Tester: Ken Swinney
Time Test Ended: 04:02:30 Unit No: 3325 Hays/50

Interval: 3990.00 ft (KB) To 4035.00 ft (KB) (TVD) Reference Elevations: 2369.00 ft (KB)
Total Depth: 4035.00 ft (KB) (TVD) 2362.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 6748 **Inside**
Press@RunDepth: 134.36 psia @ 4031.00 ft (KB) Capacity: 5000.00 psia
Start Date: 2012.02.09 End Date: 2012.02.10 Last Calib.: 2012.02.09
Start Time: 20:56:00 End Time: 04:02:30 Time On Btm: 2012.02.09 @ 23:03:30
Time Off Btm: 2012.02.10 @ 02:06:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 2 inches
1ST Shut In 60 Minutes/No blow back
2ND Open 30 Minutes/No blow /Flush tool/Didnt help
2ND Shut In 60 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2041.19	101.28	Initial Hydro-static
2	125.57	100.84	Open To Flow (1)
32	127.37	101.00	Shut-In(1)
92	1124.65	101.99	End Shut-In(1)
94	130.82	101.77	Open To Flow (2)
122	134.36	102.26	Shut-In(2)
182	1058.94	104.00	End Shut-In(2)
183	2019.26	104.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Slightly oil cut mud	0.05
0.00	Oil 2% Mud 98%	0.00

Gas Rates

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

Superior Testers Enterprises LLC Ref. No: 17154 Printed: 2012.02.09 @ 04:19:58

DST #4 ARBUCKLE

DRILL STEM TEST REPORT

Carrie Explortation
210 West 22ND
Hays, Kansas 67601
ATTN: Jeff Lawler

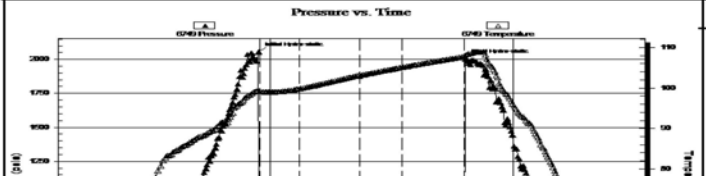
23/12S/22W/Trego
Doxon/Bunker #C-1
Job Ticket: 17155 **DST#: 4**
Test Start: 2012.02.09 @ 12:42:00

GENERAL INFORMATION:
Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 14:52:30 Tester: Ken Swinney
Time Test Ended: 19:18:00 Unit No: 3325 Hays/50

Interval: 4044.00 ft (KB) To 4070.00 ft (KB) (TVD) Reference Elevations: 2369.00 ft (KB)
Total Depth: 4070.00 ft (KB) (TVD) 2362.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

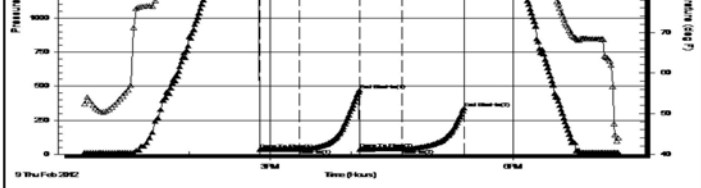
Serial #: 6749 **Outside**
Press@RunDepth: 38.83 psia @ 4067.00 ft (KB) Capacity: 5000.00 psia
Start Date: 2012.02.09 End Date: 2012.02.09 Last Calib.: 2012.02.09
Start Time: 12:42:00 End Time: 19:18:00 Time On Btm: 2012.02.09 @ 14:51:30
Time Off Btm: 2012.02.09 @ 17:24:30

TEST COMMENT: 1ST Open 30 Minutes/Weak blow /Blow built to 1 inch
1ST Shut In 45 Minutes/No blow back
2ND Open 30 Minutes/No blow /Flush tool/Didnt help
2ND Shut In 45 Minutes/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2053.49	99.40	Initial Hydro-static
1	36.94	99.05	Open To Flow (1)
30	37.18	99.78	Shut-In(1)
75	469.78	103.14	End Shut-In(1)
75	37.43	102.93	Open To Flow (2)



107	38.83	105.11	Shut-In(2)
152	339.90	107.72	End Shut-In(2)
154	2002.61	108.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Slightly oil cut Mud	0.02
0.00	Oil 2% Mud 98%	0.00

Gas Rates

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

Superior Testers Enterprises LLC Ref. No: 17155 Printed: 2012.02.09 @ 19:29:39

ROCK TYPES

Cht
Cht vari
Chtcongl
Dolprim
Dolsec
Lmst fw7>
shale, grn
shale, gry
Carbon Sh
shale, red
Ss

ACCESSORIES

MINERAL
Sandy
Chert White

STRINGER
Chert

OTHER SYMBOLS

MISC
Daily Report
Digital Photo
Document
Folder
Link
Vertical Log File
Horizontal Log File
Core Log File
Drill Cuttings Rpt

DST
DST Int
DST alt
Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1
ROP (min/ft)
Gamma (API)
Cal (in)
1:240 Imperial

Depth | Intervals
Cored Interval
DST Interval
DST
Lithology
Oil Show
Geological Descriptions

TG, C1 - C5
Total Gas (units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
1:240 Imperial

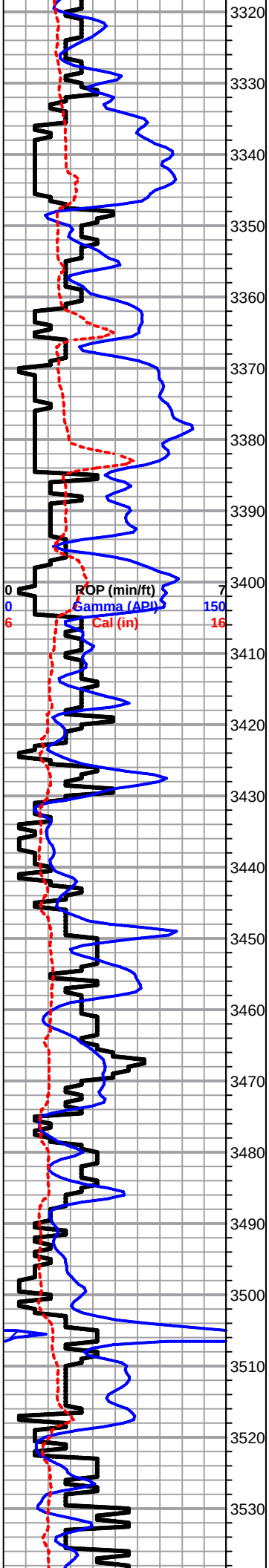
0 ROP (min/ft) 7
0 Gamma (API) 150
6 Cal (in) 16

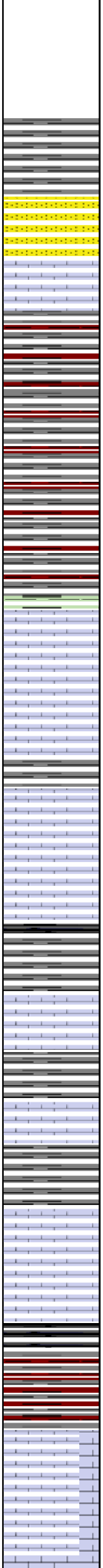
0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

3290
3300
3310

ANHYDRITE TOP 1782' (+587) E-LOG 1782' (+587)
BASE 1803' (+566) E-LOG 1827' (+542)

1' DRILL TIME FROM 3300 - RTD
10' WET/DRY SAMPLES FROM 3350 - RTD
JEFF LAWLER GEOLOGICAL SUPERVISION FROM 3500' RTD





Sh- Gray Red Maroon

Ss- Dove Gray, VF gr., consolidated & well sorted, glauconite speckled, friable, clean & barren, abundant shale *samples ground up*

Lm- Cream, VF, cryptocrystalline, dense, semi-brittle, little visible porosity, few fine gr. Ss clusters, clear, friable, gluaconite speckled, abundant shale *samples ground up*

Sh- multi-colored abundant slivers & chips, light purple & red sticky argillaceous clumps

Sh- Gray Red Marron, dense well compacted slivers, gritty earthy chips, few clusters of VF gr, semi-silty Ss, consolidated, loosely cemented, slightly speckled w/ glauconite

DISPLACE
3355' - 3380'

Sh- A/A, w/ lime green dense slivers

TOPEKA 3405' (-1036) E-LOG 3405' (-1036) Lm- Cream Lt Gray, F-Med gr., granular, consolidated & well cemented, silty mud supported matrix w/ pinpoint porosity, few chips of trashy bio-clastic mud supported siltstone

Lm- Lt & Drk Gray, VF gr., dense, silty mud supported matrix, bio-clastic, FSL w/ crinoids

Lm- Cream Tan, FXLN, dense, siliceous, FSL w/ crinoids & fusulinids, some brittle, scattered XLN porosity, mostly dense

Lm- Drk Gray Tan Cream, VF gr., dense, well cemented, some siliceous, mostly all dense w/ no visible porosity, bio-clastics w/ fossil fragmants

Lm- Cream Tan A/A

Sh- Black Gray, fissile, dense well compacted

Lm- Cream Tan, F-Med XLN, well developed w/ mostly consistant pinpoint porosity, granular, well developed

Sh- Black Gray

Lm- Gray Cream Tan, VF-F XLN, granular, dense, poorly developed, semi-siliceous, some brittle, all well cemented & tight, little visible porosity

Lm- Gray, Med-Coarse gr., trashy bio-clastic, FSL fragments, few chips of granular dolomitic chert

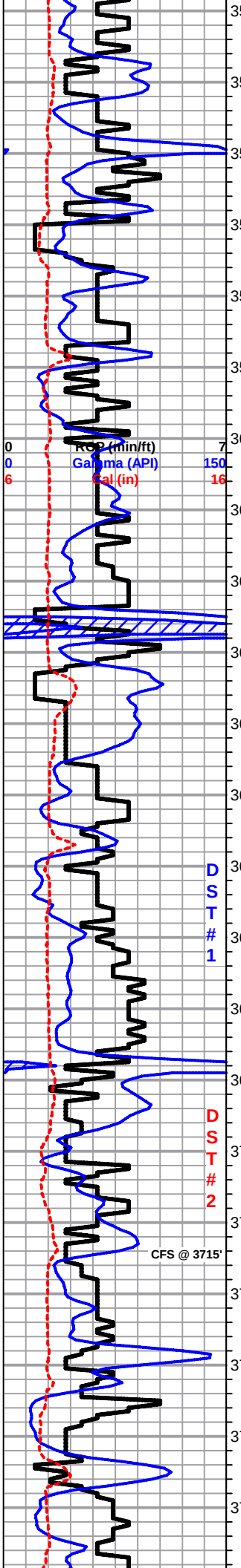
Sh- Black Gray Maroon, fissile carbonaceous

Sh- Gray Maroon Red

Lm- Cream Tan, VF, dense, some semi-granular w/ pinpoint porosity, some very well cemented, dense w/ no visible porosity

Lm- Cream Tan Buff, VF-Med XLN, some well developed w/ consistant pinpoint porosity, some dense well cemented, poorly developed w/ minimal visible porosity, some dolomitic

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100



Ls, some cherty Ls., some sharp angular bedded chert, no shows noted

Sh- Gray Black, dense slivers

Lm- Tan Buff, VF XLN, dense, tight w/ no visible porosity, few granular dolomitic Ls w/ scattered pinpoint porosity

Lm- Cream Buff, Med XLN, granular, good consistant porosity, LT GSY SCATTERED STN, ODR, FEW CHIPS W/ FO UPON CRUSH, INSTANT STREAMING WET CUT & FLOR.

Lm- Cream Buff, FXLN, dense, FSL w/ fusulinids, well cemented, scattered pinpoint to minimal visible porosity, chalky in part

Lm- VF-F XLN, dense, chalky to silty in part, well cemented, no visible porosity

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

Lm- Lt Brown Lt Gray Tan, VF-F gr., dirty, silty & chalky, semi-soft mostly

Lm- Cream Tan, VF, chalky, silty, mud supported Ls & chalk

HEEBNER 3623' (-1254) E-LOG 3624' (-1255) Sh- Black fissile carbonaceous

Sh- Gray Red Lime Green, slivers and chips of calcareous shale

TORONTO 3642' (-1273) E-LOG 3645' (-1276) Lm- Lt Gray Buff, FXLN, mostly dense & poorly developed w/ scattered secondary coarse XLN porosity, silty & chalky in part

SHORT TRIP
SLOPE 1 dgr.
STRAP 3701.17
BOARD 3697.47
STRAP +3.71

DST #1
LKC 'A,B'
3648' - 3690'

LKC 3658' (-1289) E-LOG 3658' (-1289) Lm- Cream Off White, VF-Coarse XLN, clean, FSL w/ fusulinids, mostly dense & well cemented, few chips w/ scattered coarse XLN pinpoint porosity, solution recrystallization w/ in porosity, RARE SCATTERED LT GSY STN, FNT ODR, NSFO, SLOW STREAMING WET CUT & FLOR.

Lm- Cream Tan, F-Med XLN, scattered development w/ mostly consistant pinpoint porosity, LT GSY STN, FNT ODR, NSFO, SLOW STREAMING WET CUT & FLOR.

Sh- Gray Red Maroon White, dense chips & slivers, sticky argillaceous chalky clumps, sandy shales & shaley sands, friable

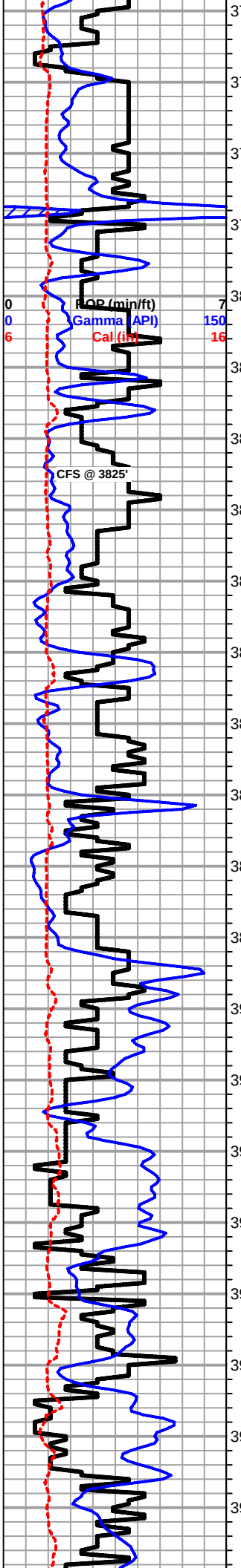
DST #2 3685 - 3715

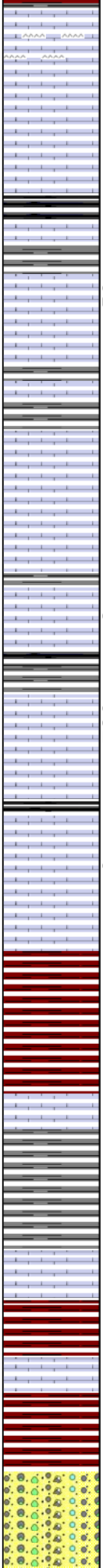
Lm- Cream Tan, Med-Coarse, med gr. oolitic clusters, good development w/ consistant pinpoint porosity, few chips of coarse XLN, oolitic Ls w/ consistant scattered pinpoint porosity, LT GSY SCATTERED STN, FR ODR, 1-2 CHIPS W/ FEW GLOBULES OF LIVELY FO UPON CRUSH, COARSE XLN-FLAKEY STN, INSTANT STREAMING WET CUT & FLOR.

Lm- Cream Tan, Fine XLN, dense, semi-cryptocrystalline, minimal development & visible porosity

Lm- Cream, Med XLN, granular, slightly dolomitic, dense, mostly well cemented, poorly developed, scattered consistent porosity, 1-2 pcs w/ scattered WEAK STN, NSFO, NO ODR,

Lm- Cream Tan, Fine gr., chalky, soft,





3760

Lm- Cream, Fine-Med XLN, mostly dense, poorly developed and tight, slightly cherty Ls, very well cemented, no visible porosity to microcrystalline pinpoint porosity, few chips of off white sharp angular bedded chert

3770

3780

Lm- A/A w/ more cryptocrystalline & chert, tight

3790

Sh- Black Gray, dense well compacted slivers

3800

Lm- Cream Tan Lt Brown, Fine gr., mix of loosely cemented Ss, slightly dolomitic chert and chalky Ls, consistent pinpoint porosity, HVY GSY ODR, LT SCATTERED TO SATURATED STN, NSFO, MOST CHIPS INSTANT STREAMING WET CUT & FLOR UPON CRUSH

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

3810

3820

3830

Lm- Cream Tan, VF-F XLN, mostly dense, semi-crytpocrstalline, well cemented, limited development w/ minimal visible porosity

3840

Lm- Lt Brown Tan Cream, FXLN, mostly dense cherty Ls, well cemented w/ minimal visible porosity, 1-2 CHIPS W/ SCATTERED PINPOINT POROSITY, SCATTERED DRK STN, NSFO, NO ODR

3850

3860

Lm- Cream Tan, VF-Coarse XLN, well developed coarse XLN, ooilitic, some secondary XLN porosity, sub-vugular porosity, interconnected, DRK SCATTERED STN, 1-2 CHIPS W/ FEW GLOBULES OF FREE OIL, SEMI-LIVELY, CHIPS W/ DRK HVY DEAD OIL STN, FNT ODR, development and porosity decrease w/ depth into a VF XLN, semi-brittle, microcrystalline, dense w/ scattered pinpoint porosity

3870

3880

Lm- Tan Cream, Fn-Med XLN, dense well cemented, slightly cherty Ls, scattered well developed pinpoint porosity, DRK SCATTERED TO SATURATED STN, FNT ODR, NSFO

Lm- Tan Fn-Med XLN, dense, very well cemented, scattered secondary XLN porosity, mostly poorly developed w/ minimal visible porosity

3890

3900

BKC 3898' (-1529) E-LOG 3893' (-1524) Sh- Red Gray, red wash shale, sandy shale & VF gr. loosely cemented Ss.

3910

Sh- Gray Red Brown Lime Green, dense well compacted gritty slivers & chips

Lm-Cream Tan, F XLN, dense well cemented, scattered pinpoint porosity

3920

Sh- Gray Brown Maroon Lime Green, dense slivers and brown wash shale

3930

3940

Sh- Red Brown Maroon, sticky argillaceous clumps, silty sandy shales, VF gr. loosely cemented Ss

3950

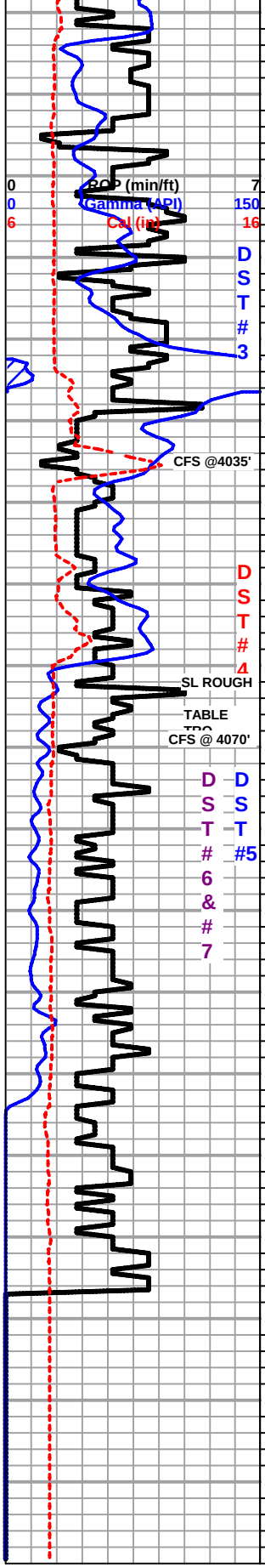
Lm- Cream Tan, FXLN, dense, scattered pinpoint porosity

3960

Sh- Red Gray, red wash shale

Conglomerate- mix of conglomerate shale, unconsolidated Ls & some sharp angular chert

3970



3980
3990
4000
4010
4020
4030
4040
4050
4060
4070
4080
4090
4100
4110
4120
4130
4140
4150
4160

Comglomerate- A/A w/ more sharp angular chert, semi-translucent & golden yellow

Chert- Salmon Semi-translucent Off White, mix of dolomitic or weathered chert and angular bedded chert, some oolitic & slightly FSL

MARMATON-PAWNEE 3996' (-1627) E-LOG 3983' (-1614) Chert- Cream Tan & Multi-colored, sharp angular bedded chert, some VF XLN, well sorted & cemented dolomite, dense, LT GSY SATURATED STN, FR ODR, VERY SLOW HALO CUT & FLOR.

Chert- A/A, SHOWS SAME AS ABOVE, FR ODR, more sharp angular bedded chert

Chert/Ls- Cream Tan, mostly dense VF gr. well cemented Ls. Chert- A/A lacking shows

Sh- Drk & Lt Gray, few dense slivers, mostly sticky argillaceous clumps

Chert- Golden Yellow Black Translucent, sharp angular bedded, black oolite clusters w/ siliceous cement, some golden yellow oolitic bedded chert, few chips of oolmoldic oolitic

Sh- Multi-colored, soft sandy shales, dense blocky, well compacted, few argillaceous clumps

ARBUCKLE 4063' (-1694) E-LOG 4059' (-1690) Dolomite- Cream Tan, VF-F XLN, dense sucrosic, some loosely cemented, well sorted, few chips of MED XLN w/ pinpoint porosity, mostly all consistent porosity throughout, LT GSY MOSTLY SATURATED STN, FR ODR, 1-2 CHIPS OF LIVELY FO UPON CRUSH, 40" & 60" smpl w/ VF dense well cemented, clean & barren

Dolomite- Tan Off White, Med-Coarse XLN, some slightly unconsolidated mix, very well developed w/ good porosity, large visible rhombs w/ vuggy porosity, SCATTERD GSY STN, GOOD ODR, FO UPON CRUSH, INSTANT CLOUDY WET CUT & FLOR

Dolomite- FXLN, dense, well sorted & cemented, pinpoint porosity, SHOWS STARTING TO DEPLETE, few w/ scattered STN, SLIGHT FO UPON CRUSH

Dolomite- VF-F XLN, dense, well sorted & cemented, tight w/ mostly micro XLN porosity, clean & barren

Dolomite- Off White Cream, A/A w/ few chips of sandy cherty dolomite & cherty dolomite, all clean & barren

Dolomite- A/A, w/ a few chips of lime green sandy dolomite w/ clear coarse gr. well round individual grain inclusions

Dolomite- Off White Light Pink, Med-Coarse XLN, abundant sandy dolomite, loosely cemented

RTD 4136' (-1767) @ 01:47 2/10/2012 LTD 4139' (-1770)

DST #5.jpg

DST #6.jpg

DST #7.jpg

0 Total Gas (units) 100
0 C1 (units) 100
0 C2 (units) 100
0 C3 (units) 100
0 C4 (units) 100

DST #3 3990 - 4035

DST #4 4044 - 4070

DST #5 4070 - 4088
STRADDLE
BOTTOM PACKER
FAILURE

DST #6 (MISRUN)
STRADDLE
TOOL PLUGGED
4066 - 4084

DST #7 (RERUN)
4066 - 4084

CTCH 1.5 hrs.
SLOPE

DST #5.jpg

DRILL STEM TEST REPORT

Carrie Explortation

210 West 22ND
Hays, Kansas 67601

ATTN: Jeff Law ler

23/12S/22W/Trego

Doxon/Bunker #C-1

Job Ticket: 17156 **DST#: 5**

Test Start: 2012.02.10 @ 10:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:42:30
Time Test Ended: 17:41:00

Test Type: Conventional Straddle (Initial)
Tester: Ken Swinney
Unit No: 3325 Hays/50

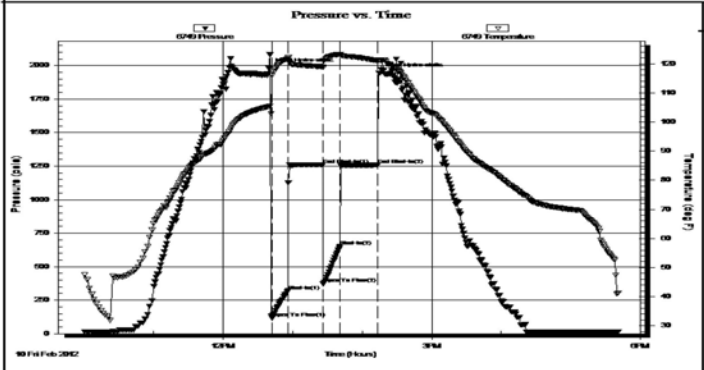
Interval: 4068.00 ft (KB) To 4140.00 ft (KB) (TVD)
Total Depth: 4140.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2369.00 ft (KB)
2362.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6749 **Outside**
Press@RunDepth: 652.89 psia @ 4083.00 ft (KB)
Start Date: 2012.02.10 End Date: 2012.02.10
Start Time: 10:00:00 End Time: 17:41:00

Capacity: 5000.00 psia
Last Calib.: 2012.02.10
Time On Btm: 2012.02.10 @ 12:39:30
Time Off Btm: 2012.02.10 @ 14:14:30

TEST COMMENT: 1ST Open 15 Minutes/Strong blow /Blow to bottom of bucket in 3 minutes
1ST Shut In 30 Minutes/No blow back
2ND Open 15 Mintues/Strong blow /Blow to bottom of bucket in 1 1/2 minutes
2ND Shut In 30 Mintues/No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1979.38	105.27	Initial Hydro-static
3	115.52	116.03	Open To Flow (1)
17	320.73	121.71	Shut-In(1)
47	1259.32	118.96	End Shut-In(1)
47	372.59	118.76	Open To Flow (2)
62	652.89	123.26	Shut-In(2)
95	1258.91	121.05	End Shut-In(2)
95	1946.30	121.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1740.00	Oil cut Muddy Water	23.70
0.00	Oil 5% Mud 40% Water 55%	0.00

Gas Rates

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

DST #6.jpg

DRILL STEM TEST REPORT

Carrie Explortation

210 West 22ND
Hays, Kansas 67601

ATTN: Jeff Law ler

23/12S/22W/Trego

Doxon/Bunker #C-1

Job Ticket: 17157 **DST#: 6**

Test Start: 2012.02.10 @ 18:10:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:47:00
Time Test Ended: 00:00:00

Test Type: Conventional Straddle (Initial)
Tester: Jared Scheck
Unit No: 3325 Hays/50

Interval: 4066.00 ft (KB) To 4084.00 ft (KB) (TVD)
Total Depth: 4140.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

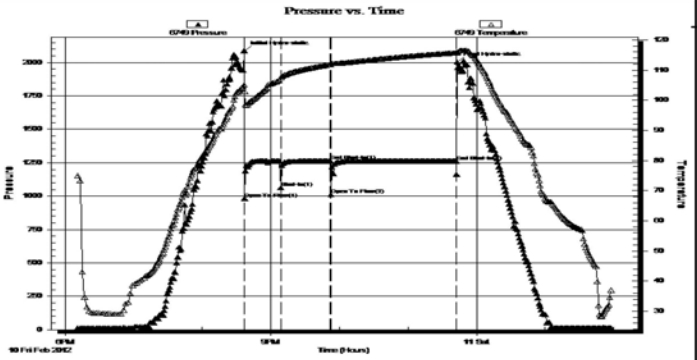
Reference Elevations: 2369.00 ft (KB)
2362.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 6749

Press@RunDepth: 1261.97 psia @ ft (KB)
Start Date: 2012.02.10 End Date: 2012.02.11
Start Time: 18:10:00 End Time: 01:57:30

Capacity: psia
Last Calib.: 1899.12.30
Time On Btm: 2012.02.10 @ 20:36:30
Time Off Btm: 2012.02.10 @ 23:43:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 1 1/2 into bucket w ater stayed steady throughout open
1st Shut-in 45 Minutes-No blow back
2nd Opening 30 Minutes-Weak surface blow died off
2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2088.10	105.11	Initial Hydro-static
1	979.14	102.78	Open To Flow (1)
32	1062.06	107.47	Shut-In(1)
76	1262.71	111.82	End Shut-In(1)
76	1011.05	111.80	Open To Flow (2)
186	1261.97	115.72	End Shut-In(2)
187	2005.08	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud	0.05

Gas Rates

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

DST #7.jpg

DRILL STEM TEST REPORT

Carrie Explortation

210 West 22ND
Hays, Kansas 67601

ATTN: Jeff Law ler

23/12S/22W/Trego

Doxon/Bunker #C-1

Job Ticket: 17158 **DST#: 7**

Test Start: 2012.02.11 @ 08:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:24:00
Time Test Ended: 17:00:30

Test Type: Conventional Straddle (Initial)
Tester: Jared Scheck
Unit No: 3325-Hays-50

Interval: 4066.00 ft (KB) To 4084.00 ft (KB) (TVD)
Total Depth: 4140.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

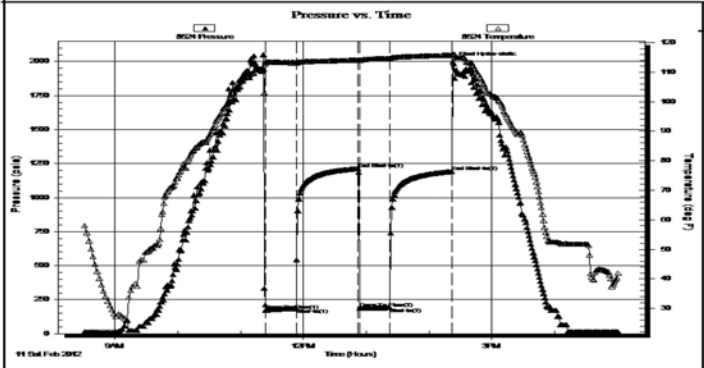
Reference Elevations: 2369.00 ft (KB)
2362.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8524

Press@RunDepth: 190.66 psia @ ft (KB)
Start Date: 2012.02.11 End Date: 2012.02.11
Start Time: 08:30:00 End Time: 17:00:30

Capacity: 5000.00 psia
Last Calib.: 2012.02.11
Time On Btm: 2012.02.11 @ 11:21:00
Time Off Btm: 2012.02.11 @ 14:22:30

TEST COMMENT: 1st Opening 30 Minutes-Tool chased 10 feet to bottom w eak blow built 6 inches into bucket in 30 minutes
1st Shut-in 60 Minutes-No blow back
2nd Opening 30 minutes-Weak blow built 1 1/2 into bucket in 30 minutes
2nd shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1941.04	110.96	Initial Hydro-static
3	172.43	113.33	Open To Flow (1)
32	185.20	113.10	Shut-In(1)
91	1213.00	114.09	End Shut-In(1)
93	184.93	113.98	Open To Flow (2)
122	190.66	114.62	Shut-In(2)
181	1191.56	115.72	End Shut-In(2)
182	1995.98	115.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Oily mud 60 %mud 40% oil	0.59
120.00	Oily mud 20 %oil 80 %mud	1.14
180.00	muddy oil 90% mud 10% oil	2.52

Gas Rates

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