

Kansas Corporation Commission Oil & Gas Conservation Division

1266687

Form CP-1
March 2010
This Form must be Typed
Form must be Signed
All blanks must be Filled

WELL PLUGGING APPLICATION

Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act, MUST be submitted with this form.

OPERATOR: License #:		API No. 1	5					
Name:		If pre 196	If pre 1967, supply original completion date:					
Address 1:		Spot Des	Spot Description:					
Address 2:		_						
City: State:		_						
Contact Person:			Feet from	East / West	Line of Section			
Phone: ()		Footages	Calculated from Neares		er:			
Filone. ()				SE SW				
			ame:					
		Lease IVe	arrie.	vveπ π				
Check One: Oil Well Gas Well OG	D&A Car	thodic Wate	r Supply Well Ot	her:				
SWD Permit #:	ENHR Permit #:		Gas Storage	Permit #:				
Conductor Casing Size:	Set at:		Cemented with:		Sacks			
Surface Casing Size:	_ Set at:		Cemented with:		Sacks			
Production Casing Size:	_ Set at:		Cemented with:		Sacks			
Elevation: (G.L. / K.B.) T.D.: Condition of Well: Good Poor Junk in Hole Proposed Method of Plugging (attach a separate page if adding Is Well Log attached to this application? Yes No. 1f ACO-1 not filed, explain why:	Casing Leak at:			ione Corral Formation)				
Plugging of this Well will be done in accordance with K. Company Representative authorized to supervise plugging								
Address:	(City:	State:	Zip:	-+			
Phone: ()								
Plugging Contractor License #:		Name:						
Address 1:	A	Address 2:						
City:			State:	Zip:	_+			
Phone: ()								
Proposed Date of Plugging (if known):								

Payment of the Plugging Fee (K.A.R. 82-3-118) will be guaranteed by Operator or Agent

Submitted Electronically



Kansas Corporation Commission Oil & Gas Conservation Division

1266687

Form KSONA-1
January 2014
Form Must Be Typed
Form must be Signed
All blanks must be Filled

CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application).

Any such form submitted without an accompanying Form KSONA-1 will be returned.

Select the corresponding form being filed: C-1 (Intent) CB-1	(Cathodic Protection Borehole Intent) T-1 (Transfer) CP-1 (Plugging Application)
OPERATOR: License #	
Name:	SecTwpS. R East West
Address 1:	•
Address 2:	
City:	If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:
Contact Person:	
Phone: () Fax: ()	
Email Address:	
Surface Owner Information:	
Name:	When filing a Form T-1 involving multiple surface owners, attach an additional
Address 1:	sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the
Address 2:	county, and in the real estate property tax records of the county treasurer.
City:	
the KCC with a plat showing the predicted locations of lease roads, tar are preliminary non-binding estimates. The locations may be entered Select one of the following: I certify that, pursuant to the Kansas Surface Owner Notice owner(s) of the land upon which the subject well is or will be CP-1 that I am filing in connection with this form; 2) if the form form; and 3) my operator name, address, phone number, fax, I have not provided this information to the surface owner(s). I KCC will be required to send this information to the surface of task, I acknowledge that I must provide the name and address that I am being charged a \$30.00 handling fee, payable to the	acknowledge that, because I have not provided this information, the owner(s). To mitigate the additional cost of the KCC performing this as of the surface owner by filling out the top section of this form and a KCC, which is enclosed with this form. If the fee is not received with this form, the KSONA-1
form and the associated Form C-1, Form CB-1, Form T-1, or Form CF Submitted Electronically	⁷ -1 will be returned.
1	

Form	CP1 - Well Plugging Application
Operator	Valhalla Exploration LLC
Well Name	HELMERS 1-1
Doc ID	1266687

Perforations And Bridge Plug Sets

Perforation Top	Perforation Base	Formation	Bridge Plug Depth
3486	3489	VIOLA	
3499	3504	VIOLA	
3506	3524	VIOLA	



Scale 1:240 (5"=100') Imperial

Well Name: Helmers #1-1

Location: Sec. 01 - T22S - R12W, Stafford County, KS

Licence Number: API No.: 15-185-23747-0000 Region: Max

Spud Date: May 2, 2012 Drilling Completed: May 10, 2012

Surface Coordinates: 1900' FSL & 2150' FEL; 3-D Location

Bottom Hole Coordinates:

Ground Elevation (ft): 1807' K.B. Elevation (ft): 1814'

Logged Interval (ft): 2600' To: 3710' Total Depth (ft): 3711' (LTD)

Formation: Arbuckle

Type of Drilling Fluid: Chemical Gel/Polymer

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Valhalla Exploration, LLC

Address: 133 N. Glendale

Wichita, KS 67208

GEOLOGIST

Name: Derek W. Patterson

Company: Valhalla Exploration, LLC

Address: 133 N. Glendale

Wichita, KS 67208

REMARKS

After review of the open hole logs, log calculations, DST #6 results, and sample analysis, it was decided upon by operator to run 5 1/2" production casing to further evaluate the Viola section of the Helmers #1-1.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

COMMENTS

Please Note: The RTD was 3710' and the LTD 3711'.

After comparison between the electric log curves and the drill time curves for the Helmers #1-1, I am recommending that all drill time, gas curves, lithology, and DST #1 - DST #4 intervals be shifted 4' deeper/lower.

My report reflects the 4' shift of the above. I have also changed all connection and circulation points to match the overall shift.



General Information

Service Companies

Drilling Contractor: Southwind Drilling Company - Rig #4

Tool Pusher: Robert Stevenson Daylight Driller: Brent Babcock Evening Driller: Mike Savage Morning Driller: Ian Laymon

Gas Detector: Bluestem Environmental

Engineer: Sidney Edelbrock

Unit: 0279 Operational By: 1500'

Drilling Fluid:	Mud-Co/Service	Mud
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Engineer: Rick Hughes Jason Whiting

Logging Company: Superior Well Services

Engineer: Jason Cappellucci Logs Ran: DI, CDNL, Micro

Testing Company: Superior Testers

Tester: Jared Scheck

Deviation Survey				
Depth Survey				
582'	0°			
2856'	1°			
3376'	3/4°			
RTD - 3710'	1 1/4°			

Pipe Strap				
Depth Pipe Strap				
3376'	1.97' Long to Board			

Bit Record							etty	
Bit # Size Make Type Serial Number Depth In Depth Out Feet Hou								Hours
1	12 1/4"	JZ	HP-11	LX2691	0,	582'	582'	6.5
2	7 7/8"	Reed	S-52	B156906	582'	3710'	3128'	90

	Surface Casing					
5.3.2012	Ran 14 joints of new 24 #/ft 8 5/8" casing, tallying 571', set @ 582' KB.					
	Cemented with 450 sacks of 60/40 Poz, 3% calcium chloride, 2% gel, 1/2# flo-seal per sack.					
1	Cement did circulate.					
	Plug down @ 0330 hrs 5.3.12. By Quality.					

0.4000000000000000000000000000000000000	Production Casing					
5.12.2012	5.12.2012 Ran 89 joints of new 15.5 #/ft 5 1/2" production casing, tallying 3793', set @ 3706' KB.					
	Cemented with 50 sacks of 60/40 Poz scavenger and 125 sacks Econ-O-Bond. Cement did circulate.					
	Plug down @ 0145 hrs 5.13.12. By Basic.					



Daily Drilling Report

Date	7:00 AM Depth	Previous 24 Hours of Operations
5.7.2012	3271'	Drilling and connections Severy and into Topeka. Geologist Derek W. Patterson on location, 1140 hrs 5.6.12. Reset Bloodhound to correspond with geolograph. Resume drilling and connections Topeka, Heebner, Toronto, and into Brown Lime. Stop @ 3224' for short trip. CTCH, short trip (21 stands), 0220 hrs 5.7.12. CTCH, resume drilling following short trip, 0420 hrs 5.7.12. Drilling and connections Brown Lime, and into Lansing. Test system with positive response. Drilling and connections Lansing. Made 462' over past 24 hrs of operations. WOB: 28k RPM: 70 PP: 700 SPM: 60 DMC: \$257.60 CMC: \$5,283.85
5.8.2012	3447'	Drilling Lansing. CFS @ 3294' (LKC 'D'). Resume drilling and connections Lansing. CFS @ 3318' (LKC 'F'). Resume drilling and connections Lansing. CFS @ 3376' (LKC 'H'). DST warranted. CTCH, drop survey, strap out for DST #1, 1540 hrs 5.7.12. TIH with tool. Conducting DST #1, test successful. TIH with bit, CTCH, run in premix, resume drilling following DST #1, 0150 hrs 5.8.12. Drilling and connections Lansing. Made 176' over past 24 hrs of operations. WOB: 30k RPM: 70 PP: 750 SPM: 60 DMC: \$186.75 CMC: \$5,470.60
5.9.2012	3596'	Drilling and connections Lansing, Base Kansas City, Viola, and into Simpson. CFS @ 3534' (Simpson) for Viola gas kick. Resume drilling and connections Simpson. CFS @ 3574', CFS @ 3584', CFS @ 3590' (Arbuckle). Shows warrant DST. CTCH, TOH for DST #2, 1920 hrs 5.8.12. TIH with tool. Conducting DST #2, test successful. TIH with bit, CTCH, run in premix, resume drilling following DST #2, 0635 hrs 5.9.12. CFS @ 3596' (Arbuckle). Made 149' over past 24 hrs of operations. WOB: 32k-36k RPM: 70 PP: 750 SPM: 60 DMC: \$585.65 CMC: \$6,056.25
5.10.2012	3601'	CFS @ 3596' (Arbuckle). Shows warrant DST. CTCH, TOH for DST #3, 0825 hrs 5.9.12. TIH with tool. Conducting DST #3, test unsuccessful. TIH with bit, CTCH, short trip (6 stands), CTCH, TOH for DST #4, 1905 hrs 5.9.12. TIH with tool. Conducting DST #4, test successful. TIH with bit, CTCH, resume drilling following DST #4, 0555 hrs 5.10.12. CFS @ 3601' (Arbuckle). Made 5' over past 24 hrs of operations. WOB: 36k RPM: 70 PP: 750 SPM: 60 DMC: \$656.05 CMC: \$6,712.30
5.11.2012	RTD - 3710' LTD - 3711'	CFS @ 3601' (Arbuckle). Resume drilling Arbuckle. CFS @ 3609' (Arbuckle). Resume drilling and connections ahead to RTD of 3710'. RTD reached, 1310 hrs 5.10.12. CTCH, drop survey, TOH for open hole logging operations, 1500 hrs 5.10.12. Rig up loggers. Commence open hole logging operations, 1650 5.10.12. Open hole logging operations complete, 2015 hrs 5.10.12. Decision made to run straddle test across the Viola. TIH with tool. Test will be monitored on location by tester with reports into geologist. Conducting DST #5. Geologist Derek W. Patterson off location, 2050 hrs 5.10.12. Made 113' over past 24 hrs of operations. WOB: 36k RPM: 70 PP: 750 SPM: 60 DMC: \$677.95 CMC: \$7,390.25
5.12.2012	RTD - 3710' LTD - 3711'	Conducting DST #5, test unsuccessful due to bottom packer failure. Decision made to rerun straddle test with different packer location. TIH with tool. Conducting DST #6, test successful. Orders received to run 5 1/2" production casing for further evaluation of the Helmers #1-1. DMC: \$390.60 CMC: \$7,780.85



Well Comparison Sheet

		Drilling Well				Comparison Well			
	Va	Valhalla Exploration - Helmers #1-1				Biddle Drilling - Helmers #1			
	20	1900' FSL & 2150' FEL				NW NW SE			
		Sec. 1 - T22S - R12W				Sec. 1 - T22S - R12W			
	(As best of				Oil - Arbuckle		Structural		
	1814	KB			1815	KB	Relation	onship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	
Topeka	2788	-974	2790	-976	2791	-976	2	0	
King Hill	2890	-1076	2894	-1080	2893	-1078	2	-2	
Queen Hill	2977	-1163	2981	-1167	2983	-1168	5	1	
Heebner	3079	-1265	3082	-1268	3084	-1269	4	1	
Toronto	3097	-1283	3100	-1286	3104	-1289	6	3	
Douglas	3112	-1298	3114	-1300	3118	-1303	5	3	
Brown Lime	3207	-1393	3211	-1397	3213	-1398	5	1	
Lansing	3236	-1422	3239	-1425	3242	-1427	5	2	
LKC 'B'	3254	-1440	3257	-1443	3261	-1446	6	3	
LKC 'D'	3275	-1461	3276	-1462	3282	-1467	6	5	
LKC 'F'	3304	-1490	3305	-1491	3310	-1495	5	4	
LKC 'G'	3319	-1505	3323	-1509	3324	-1509	4	0	
Muncie Creek	3358	-1544	3363	-1549	3362	-1547	3	-2	
LKC 'H'	3363	-1549	3366	-1552	3368	-1553	4	1	
Stark	3415	-1601	3425	-1611	3424	-1609	8	-2	
LKC 'K'	3421	-1607	3431	-1617	3430	-1615	8	-2	
Base Kansas City	3456	-1642	3462	-1648	3462	-1647	5	-1	
Viola	3481	-1667	3485	-1671	3483	-1668	1	-3	
Simpson	3527	-1713	3531	-1717	3526	-1711	-2	-6	
Arbuckle	3579	-1765	3584	-1770	3575	-1760	-5	-10	
Total Depth	3710	-1896	3711	-1897	3593	-1778	-118	-119	

Please Note: DST #1 - DST #4 intervals need to be shifted 4' lower/deeper to correspond with the electric log curves.



Valhalla Exploration L.L.C

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Job Ticket: 17135

DST#:1

1807.00 ft (CF)

ATTN: Derek Patterson

Test Start: 2012.05.07 @ 17:27:00

GENERAL INFORMATION:

Formation: Lansing 'H'

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 19:13:00 Tester: Jared Scheck
Time Test Ended: 22:37:30 Unit No: 3320-50-Great Bend

Interval: 3352.00 ft (KB) To 3372.00 ft (KB) (TVD) CORRECTED Reference Bevations: 1814.00 ft (KB)

Total Depth: 3372.00 ft (KB) (TVD) 3356' - 3376'

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 40.82 psia @ ft (KB) Capacity: 5000.00 psia

 Start Date:
 2012.05.07
 End Date:
 2012.05.07
 Last Calib.:
 2012.05.07

 Start Time:
 17:27:00
 End Time:
 22:37:30
 Time On Btm:
 2012.05.07 @ 19:12:00

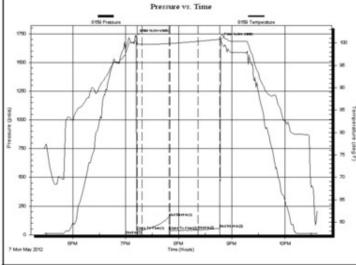
 Time Off Btm:
 2012.05.07 @ 20:47:30

TEST COMMENT: 1st Open 5 Minutes-Very weak blow built 1/4 inch into water in 5 minutes

1st Shut-in 30 Minutes No blow back

2nd Open 30 Minutes-Very weak surge did not built

2nd Shut-in 30 Minutes-No blow back



(Pressure	Temp	Annotation	
	Min.)	(psia)	(deg F)		
	0	1726.31	100.36	Initial Hydro-static	
	1	39.20	99.81	Open To Flow (1)	
	7	39.19	99.67	Shut-In(1)	
	37	155.85	99.91	End Shut-In(1)	
	38	39.03	99.88	Open To Flow (2)	
	70	40.82	100.37	Shut-In(2)	
	95	56.79	100.82	End Shut-In(2)	
	96	1697.80	101.59	Final Hydro-static	

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01
	70 07	

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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Superior Testers Enterprises LLC

Ref. No: 17135

Printed: 2012.05.07 @ 23:06:33



Valhalla Exploration L.L.C

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Job Ticket: 17136

DST#: 2

ATTN: Derek Patterson

Test Start: 2012.05.08 @ 21:10:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 22:36:30 Tester: Jared Scheck
Time Test Ended: 03:14:30 Unit No: 3320-50-Great Bend

 Interval:
 3524.00 ft (KB) To
 3586.00 ft (KB) (TVD)
 CORRECTED
 Reference Bevations:
 1814.00 ft (KB)

 Total Depth:
 3586.00 ft (KB) (TVD)
 3528' - 3590'
 1807.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8159 Inside

 Press@RunDepth:
 71.72 psia
 @ 3582.00 ft (KB)
 Capacity:
 5000.00 psia

 Start Date:
 2012.05.08
 End Date:
 2012.05.09
 Last Calib.:
 2012.05.09

Start Time: 21:10:00 End Time: 03:14:30 Time On Btm: 2012.05.08 @ 22:35:30

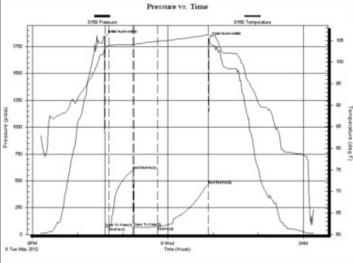
Time Off Btm: 2012.05.09 @ 00:54:30

TEST COMMENT: 1st Opening 5 Minutes-Weak blow built 1 1/4 in 5 minutes

1st Shut-in 30 Minutes-No blow back

2nd Opening 30 Minutes-Weak blow built 1 1/4 into bucket in 30 minutes

2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY ssure Temp Annotation

-	Time	Pressure	Temp	Annotation
1	(Min.)	(psia)	(deg F)	
1	0	1838.00	102.96	Initial Hydro-static
1	1	66.09	103.19	Open To Flow (1)
1	6	69.09	103.89	Shut-In(1)
٦.	38	599.20	104.07	End Shut-In(1)
Tempe	39	71.23	103.94	Open To Flow (2)
(deg F)	71	71.72	104.83	Shut-In(2)
(deg)	138	462.83	106.36	End Shut-In(2)
3	139	1818.22	106.37	Final Hydro-static
-				
1				
1				
1				
-				
- 1		l		

Recovery

Length (ft)	Description	Volume (bbl)	
20.00	Mud Oil 20%Oil 80%Mud	0.10	

Gas Rates

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

Superior Testers Enterprises LLC

Ref. No: 17136

Printed: 2012.05.09 @ 03:42:35



Valhalla Exploration L.L.C

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Job Ticket: 17137

DST#: 3

ATTN: Derek Patterson

Test Start: 2012.05.09 @ 09:50:00

Test Type: Conventional Bottom Hole (Initial)

GENERAL INFORMATION:

MISRUN DUE TO PACKER FAILURE

3590' - 3596'

Formation: Arbuckle

Total Depth:

Deviated: No Whipstock: ft (KB)

3592.00 ft (KB) (TVD)

Time Tool Opened: 11:24:30 Tester: Jared Scheck
Time Test Ended: 14:40:00 Unit No: 3320-50-Great Bend

Interval: 3586.00 ft (KB) To 3592.00 ft (KB) (TVD) CORRECTED Reference Elevations:

1814.00 ft (KB) 1807.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 7.00 ft

Serial #: 8159 Inside

Press@RunDepth: 158.96 psia @ 3588.00 ft (KB) Capacity: 5000.00 psia

 Start Date:
 2012.05.09
 End Date:
 2012.05.09
 Last Calib.:
 2012.05.09

 Start Time:
 09:51:00
 End Time:
 14:40:00
 Time On Btm
 2012.05.09 @ 11:20:30

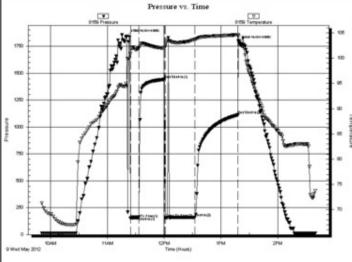
Time Off Btm: 2012.05.09 @ 13:19:00

TEST COMMENT: 1st Opening 7 Minutes-Fair blow built 6 inches into water lost mud in hole so picked up reset tool fair blow built 4 inches

onto water in 7 minutes

1st Shut-in 30 Minuites-No blow back

2nd Opening 30 Minutes-Weak surge did not build flushed tool w eak surge didnot build



	PRESSURE SUMMARY					
T	Time	Pressure	Temp	Annotation		
1	(Min.)	(psia)	(deg F)			
- [0	1840.63	94.39	Initial Hydro-static		
- 1	4	150.06	100.92	Open To Flow (1)		
- 1	13	163.91	101.89	Shut-In(1)		
- 1	40	1442.87	102.00	End Shut-In(1)		
100	41	155.94	102.27	Open To Flow (2)		
Temperature	72	158.96	103.68	Shut-In(2)		
ā	118	1112.03	104.63	End Shut-In(2)		
-	119	1784.11	103.38	Final Hydro-static		
-	200	1000000000000	2/28/00/00/20			
-						
- 1						
-						
- 1						

Recovery

Description	Volume (bbl)
Mud	1.43
Mud with Spot oil 1%oil 99%mud	0.84
	Mud

Gas Rates

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

Superior Testers Enterprises LLC

Ref. No: 17137

Printed: 2012.05.10 @ 03:28:56



Valhalla Exploration L.L.C

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Tester:

Unit No:

Job Ticket: 17138 DST#: 4

ATTN: Derek Patterson

Test Start: 2012.05.09 @ 20:00:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 21:26:30
Time Test Ended: 02:21:30

Reference Bevations: 1814.00 ft (KB)

3320-50-Great Bend

Jared Scheck

Interval: 3522.00 ft (KB) To 3592.00 ft (KB) (TVD) CORRECTED
Total Depth: 3592.00 ft (KB) (TVD) 3526' - 3596'

1807.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Poor KB to GR/CF: 7.00 ft

Serial #: 8159

Press@RunDepth: 100.54 psia @ ft (KB) Capacity: 5000.00 psia

 Start Date:
 2012.05.09
 End Date:
 2012.05.10
 Last Calib.:
 2012.05.10

 Start Time:
 20:34:00
 End Time:
 02:55:30
 Time On Btm:
 2012.05.09 @ 21:59:30

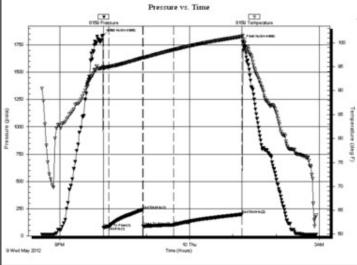
 Time Off Btm:
 2012.05.10 @ 01:13:30

TEST COMMENT: 1st Opening 5 Minutes-Weak blow built 2 1/4 inches into water in 5 minutes Tool chased 2 feet

1st Shut-in 45 Minutes-No blow back

2nd Opening 45 Minutes-Weak blow built 4 inches into water in 45 minutes

2nd Shut-in 90 Minutes-No blow back



PRESSURE SUMMARY				
Time	Pressure	Temp	Annotation	
(Min.)	(psia)	(deg F)	1000 D 10	
0	1835.02	95.00	Initial Hydro-static	
1	76.98	94.63	Open To Flow (1)	
8	85.01	94.99	Shut-In(1)	
55	240.39	96.85	End Shut-In(1)	
56	88.32	96.85	Open To Flow (2)	
99	100.54	98.56	Shut-In(2)	
193	197.85	101.33	End Shut-In(2)	
194	1779.00	101.55	Final Hydro-static	
0.70	*************	***************************************		

DDESSLIDE SLIMMADY

Recovery

Length (ft)	Description	Volume (bbl)	
90.00	Muddy oil 20%Oil 80%Mud	0.44	

Gas Rates

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

Superior Testers Enterprises LLC

Ref. No: 17138

Printed: 2012.05.10 @ 03:26:28



Valhalla Exploration L.L.C

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1

Job Ticket: 17140

DST#:5

ATTN: Derek Patterson

Test Start: 2012.05.10 @ 20:45:00

GENERAL INFORMATION:

MISRUN DUE TO PACKER FAILURE

Formation: Viola

Interval:

Total Depth:

Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)

Time Tool Opened: 22:23:00 Time Test Ended: 04:09:00 Tester: Jared Scheck
Unit No: 3320-Great Bend-50

OTILL TWO.

ations: 1814.00 ft (KB)

3460.00 ft (KB) To 3528.00 ft (KB) (TVD) Reference Elevations:

1807.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8159 Inside

Press@RunDepth: 1239.72 psia @ 3534.00 ft (KB) Capacity: 5000.00 psia

Start Date: 2012.05.10 End Date: 2012.05.11 Last Calib.: 2012.05.11

Time Off Btm: 2012.05.11 @ 01:15:30

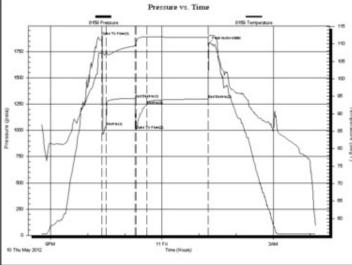
TEST COMMENT: 1st Opening 5 Minutes-Strong blow built bottom of bucket in 1 minute

1st Shut-in 45 Minutes-No blow back

3711.00 ft (KB) (TVD)

2nd Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute

2nd Shut-in 90 Mimnutes-No blow back



P	RESSUR	RE SUMMARY
	Tonn	Appatation

Time	Pressure	Temp	Annotation
(Min.)	(psia)	(deg F)	
0	1898.60	107.38	Open To Flow (1)
7	1037.15	107.77	Shut-In(1)
54	1304.59	109.41	End Shut-In(1)
55	1005.82	110.12	Open To Flow (2)
73	1239.72	112.06	Shut-In(2)
172	1298.40	111.93	End Shut-In(2)
173	1823.16	112.16	Final Hydro-static
0.294	10.000000000000000000000000000000000000	300000000	

Recovery

Length (ft)	Description	Volume (bbl)
2640.00	muddy w ater 30% mud 70% w ater	35.94
0.00	Chlorides 25,000	0.00
0.00	Resistivity .3 @ 65 degrees	0.00

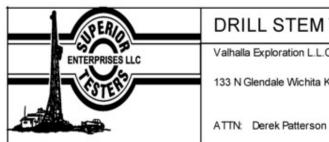
Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)	Ш
			1
			1
			1
			1

Superior Testers Enterprises LLC

Ref. No: 17140

Printed: 2012.05.11 @ 05:12:16



Valhalla Exploration L.L.C

1-22s-12w Stafford

133 N Glendale Wichita KS 67206

Helmers#1-1 Job Ticket: 17141

DST#:6

Test Start: 2012.05.11 @ 08:45:00

GENERAL INFORMATION:

Formation: Viola

Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Initial)

Time Tool Opened: 10:32:00 Tester: Jared Scheck Time Test Ended: 15:04:00 Unit No: 3320-GB-50

Interval: 3440.00 ft (KB) To 3504.00 ft (KB) (TVD)

3693.00 ft (KB) (TVD)

Reference Bevations: 1814.00 ft (KB) 1807.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 8159

Total Depth:

Press@RunDepth: 177.47 psia @ ft (KB) Capacity: 5000.00 psia

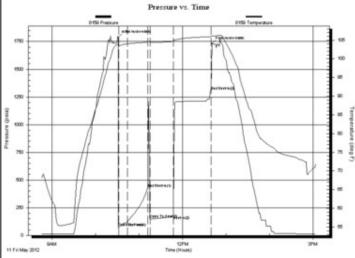
Start Date: 2012.05.11 End Date: 2012.05.11 Last Calib .: 2012.05.11 Start Time: 08:45:00 End Time: 15:04:00 Time On Btm: 2012.05.11 @ 10:31:00 Time Off Btm: 2012.05.11 @ 12:40:30

TEST COMMENT: 1st Opening 10 Minutes-Fair blow built 6 inches

1st Shut-in 30 Minutes-No blow back

2nd Opening 30 minutes-Fair blow built bottom of bucket in 30 minutes

2nd Shut-in 60 Minutes-No blow back



PRESSURE	SUMMARY

ressure (psia) 789.63 75.07 114.39 129.19 149.86	Temp (deg F) 103.94 103.46 104.00 104.43 104.38	Annotation Initial Hydro-static Open To Flow (1) Shut-In(1) End Shut-In(1) Open To Flow (2)
789.63 75.07 114.39 129.19	103.94 103.46 104.00 104.43	Open To Flow (1) Shut-In(1) End Shut-In(1)
75.07 14.39 129.19	103.46 104.00 104.43	Open To Flow (1) Shut-In(1) End Shut-In(1)
14.39 129.19	104.00 104.43	Shut-ln(1) End Shut-ln(1)
29.19	104.43	End Shut-In(1)
149.86	104.38	Open To Flow (2)
		Open To How (2)
77.47	104.64	Shut-In(2)
306.68	105.96	End Shut-In(2)
730.03	106.10	Final Hydro-static
	06.68	06.68 105.96

Recovery

Length (ft)	Description	Volume (bbl)
240.00	muddy oil cut gas 40%gas 10%oil 50%	m2.27
0.00	240 gas in pipe	0.00

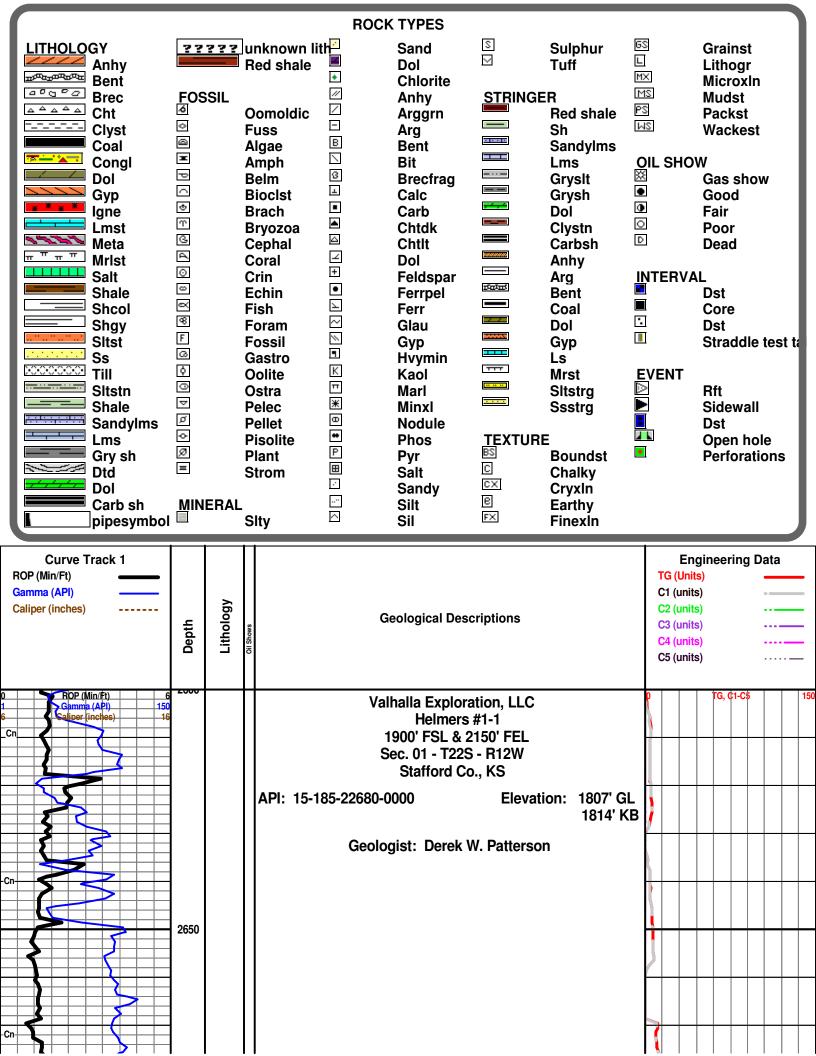
Gas Rates

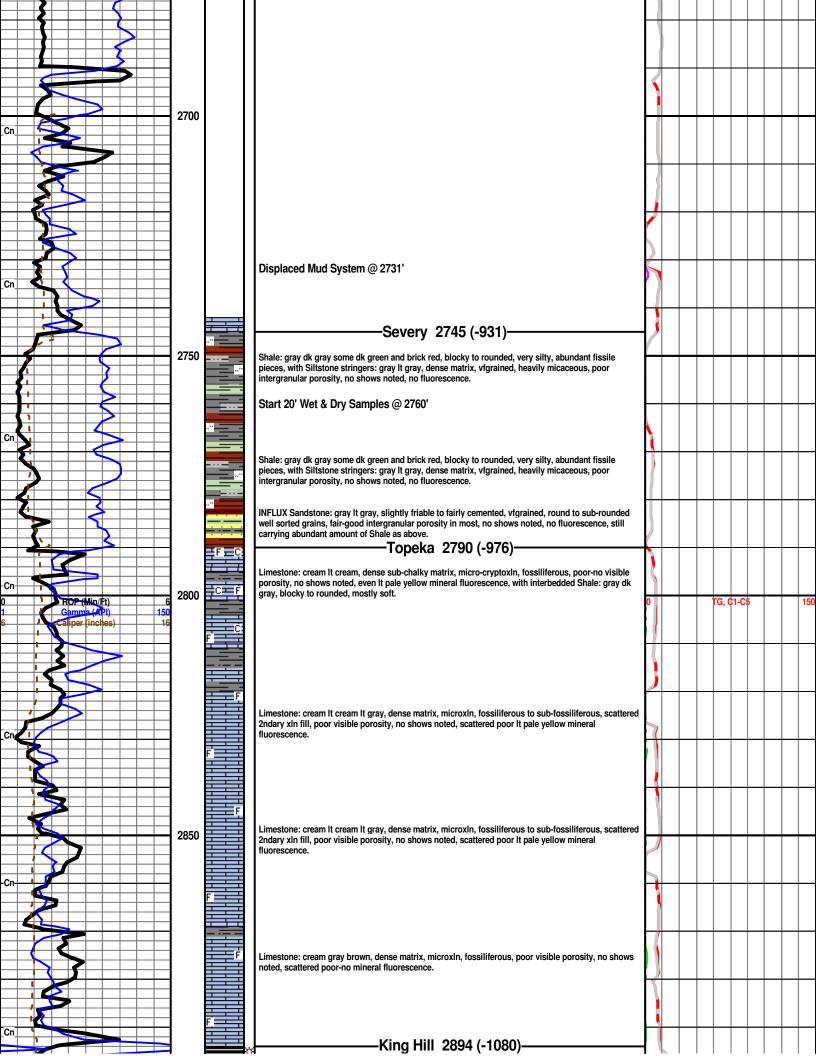
Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

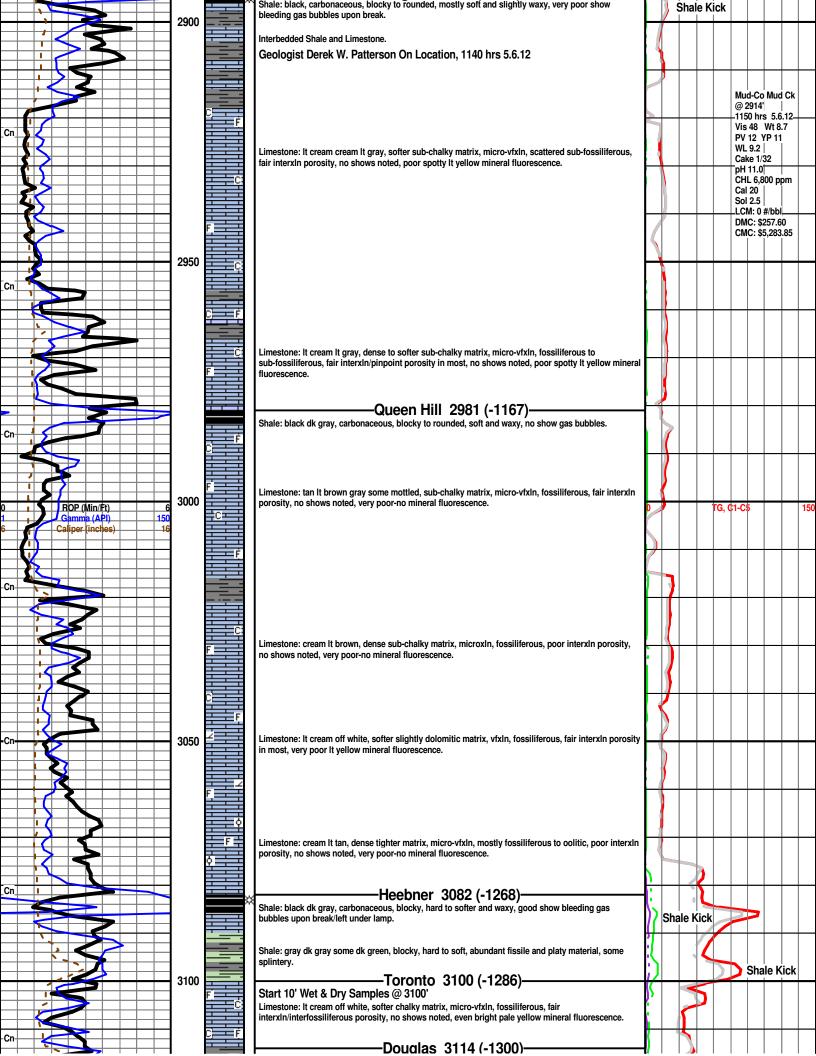
Superior Testers Enterprises LLC

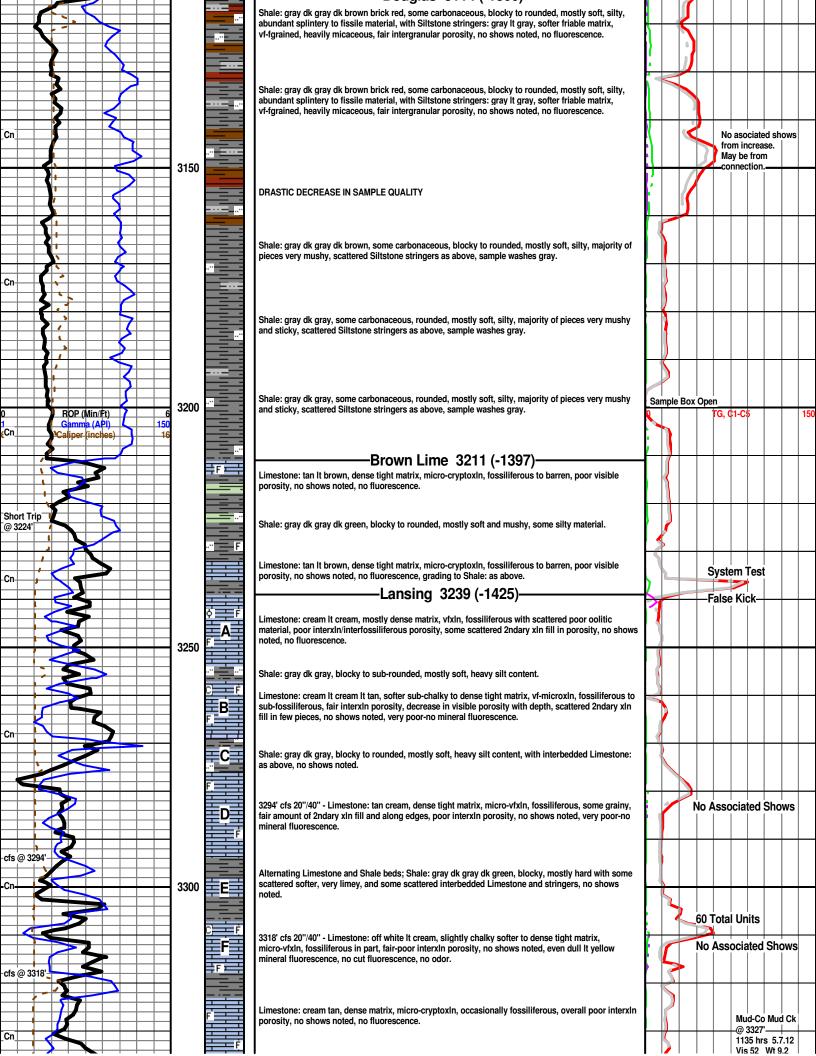
Ref. No: 17141

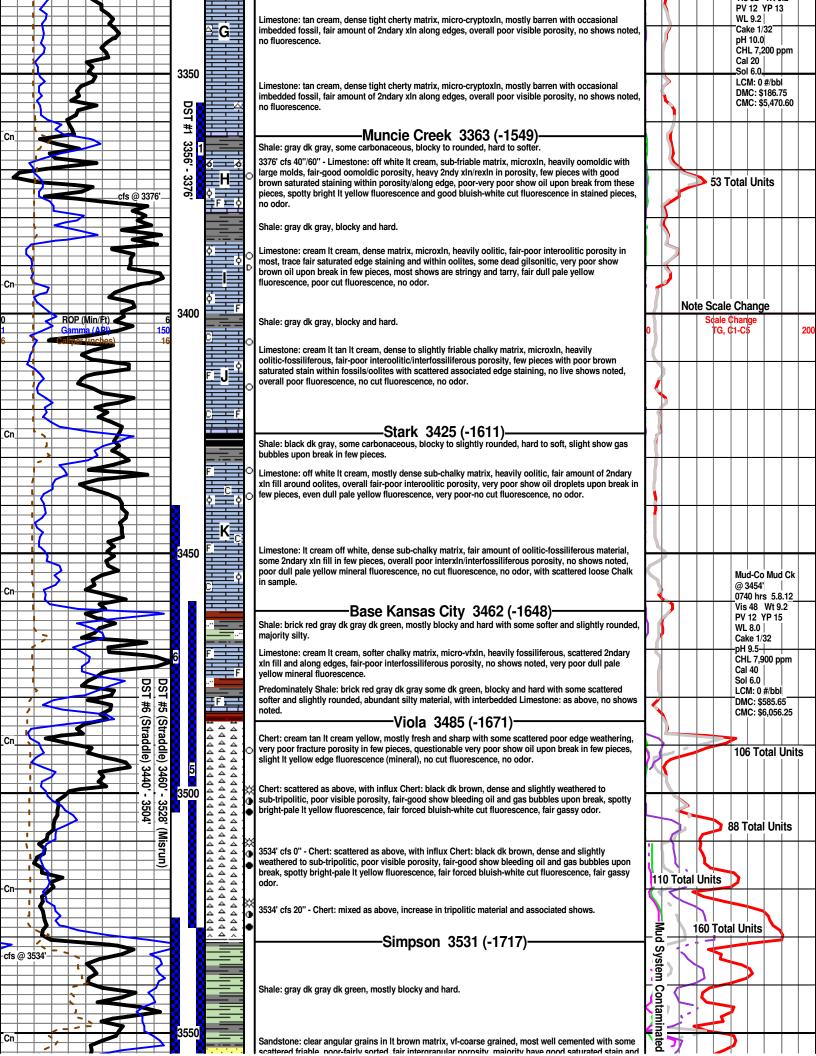
Printed: 2012.05.11 @ 15:05:52

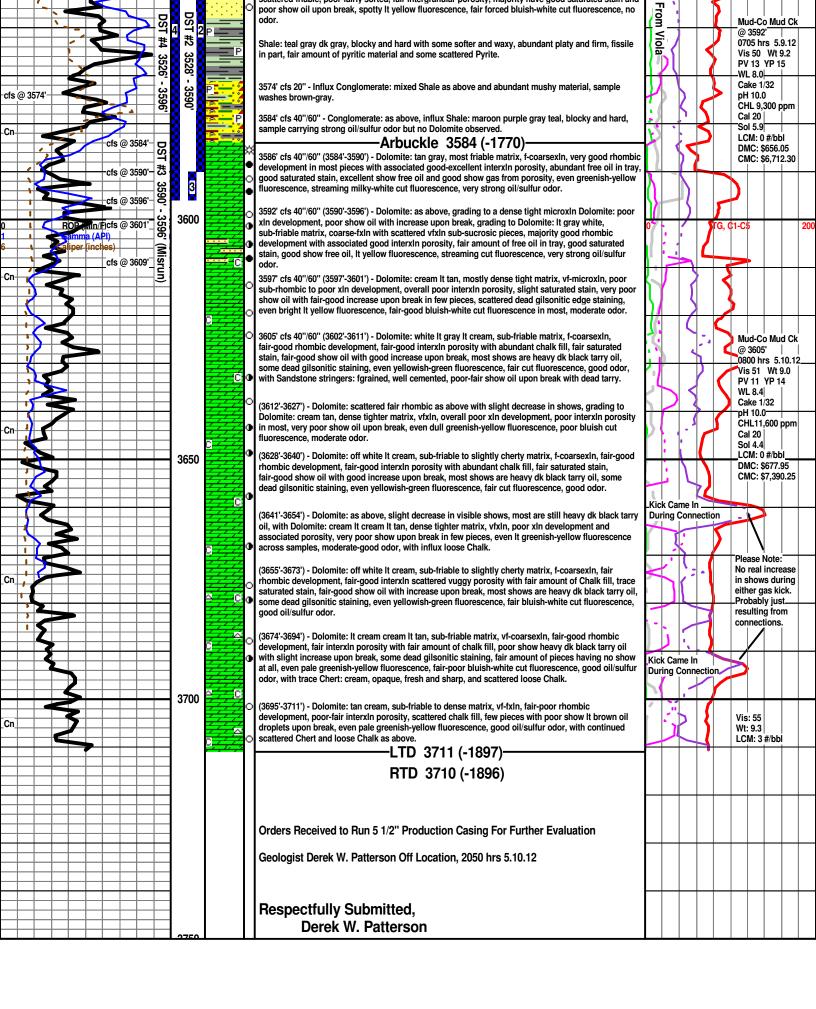


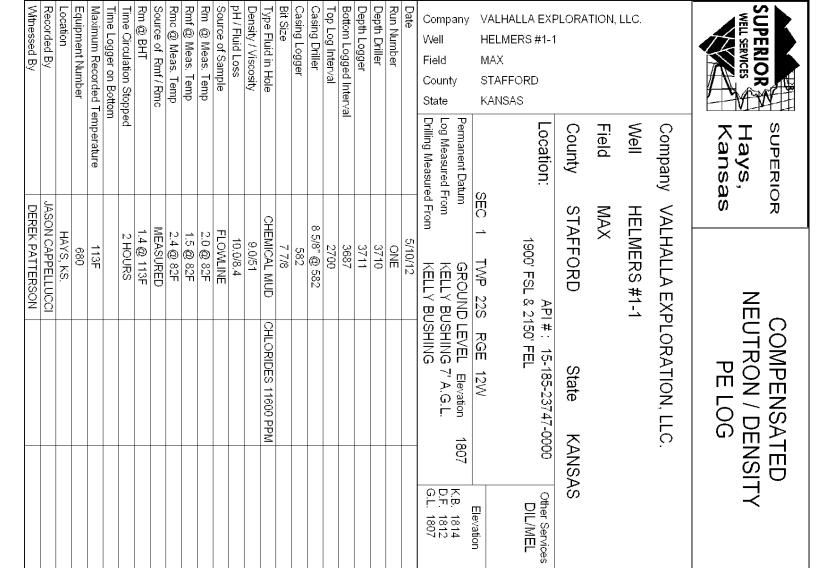












All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

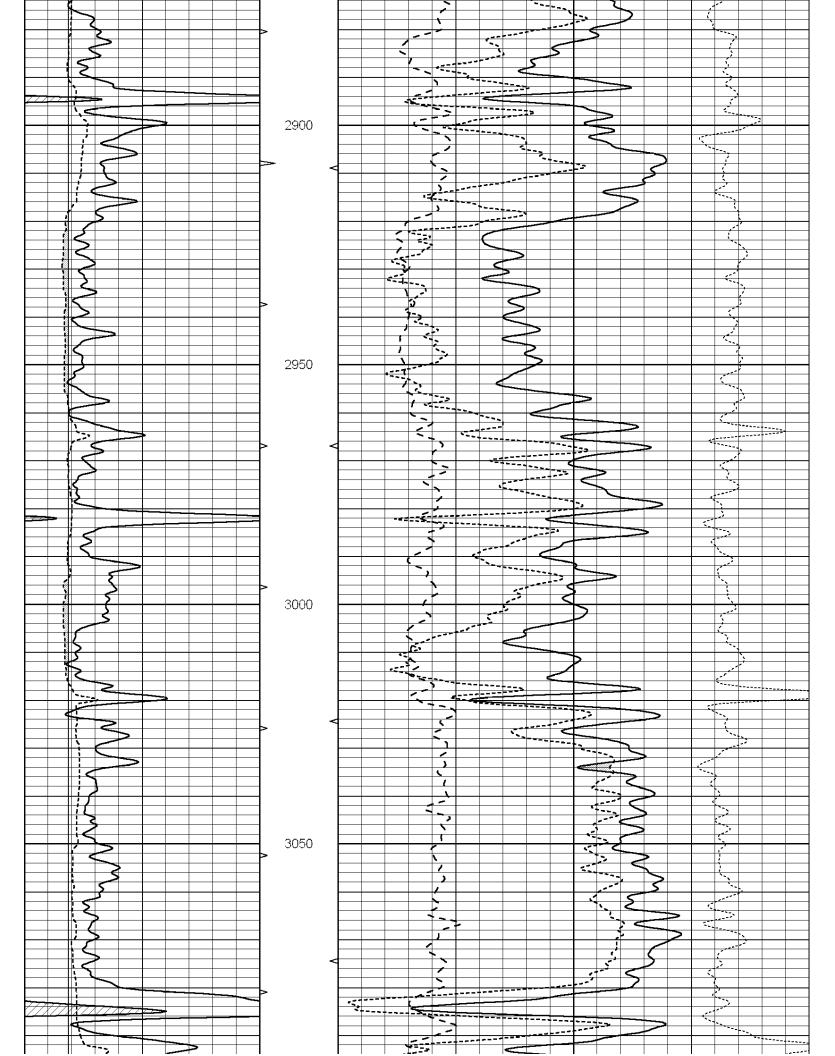
Comments

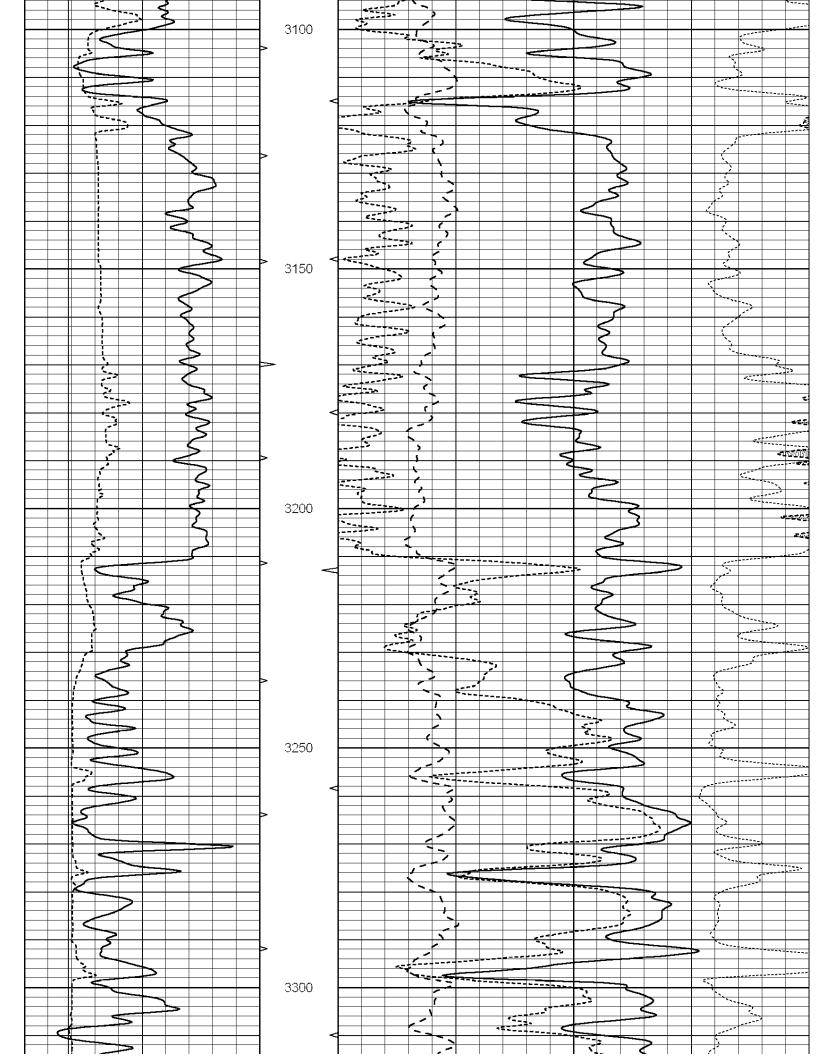
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395 DIRECTIONS HWY 281 & HWY 19 - 9 E. TO RD. 90 - 1/4 N. - W. INTO

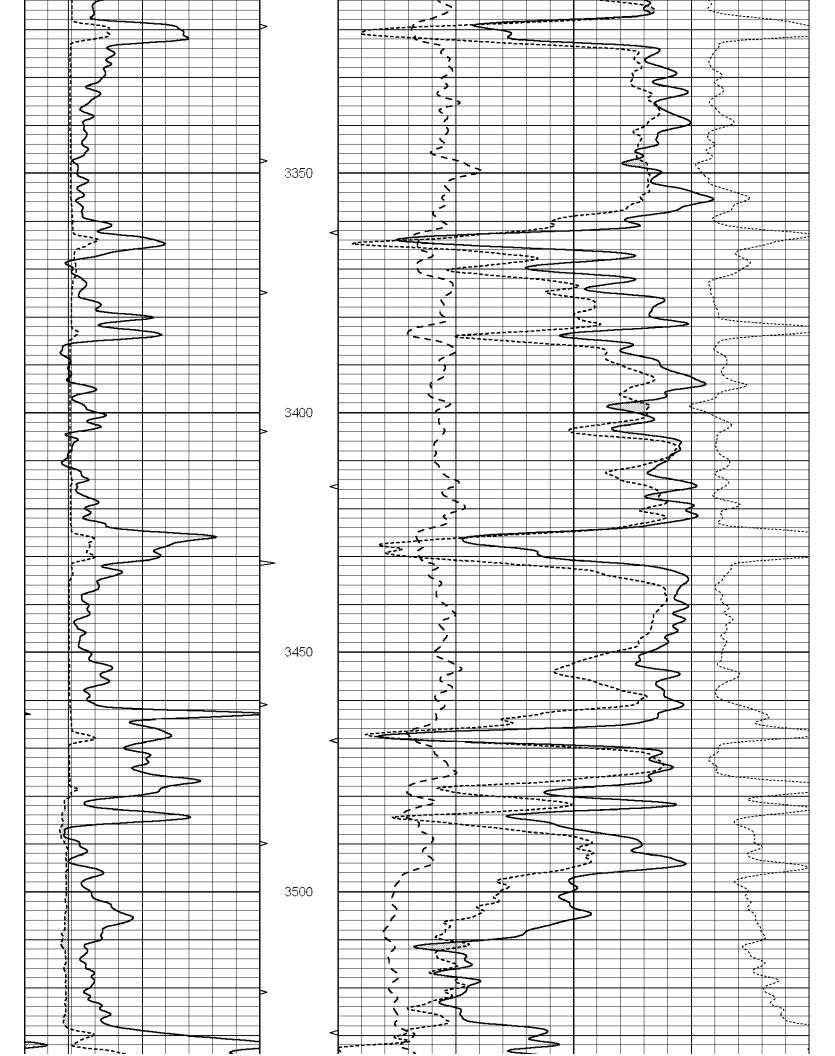


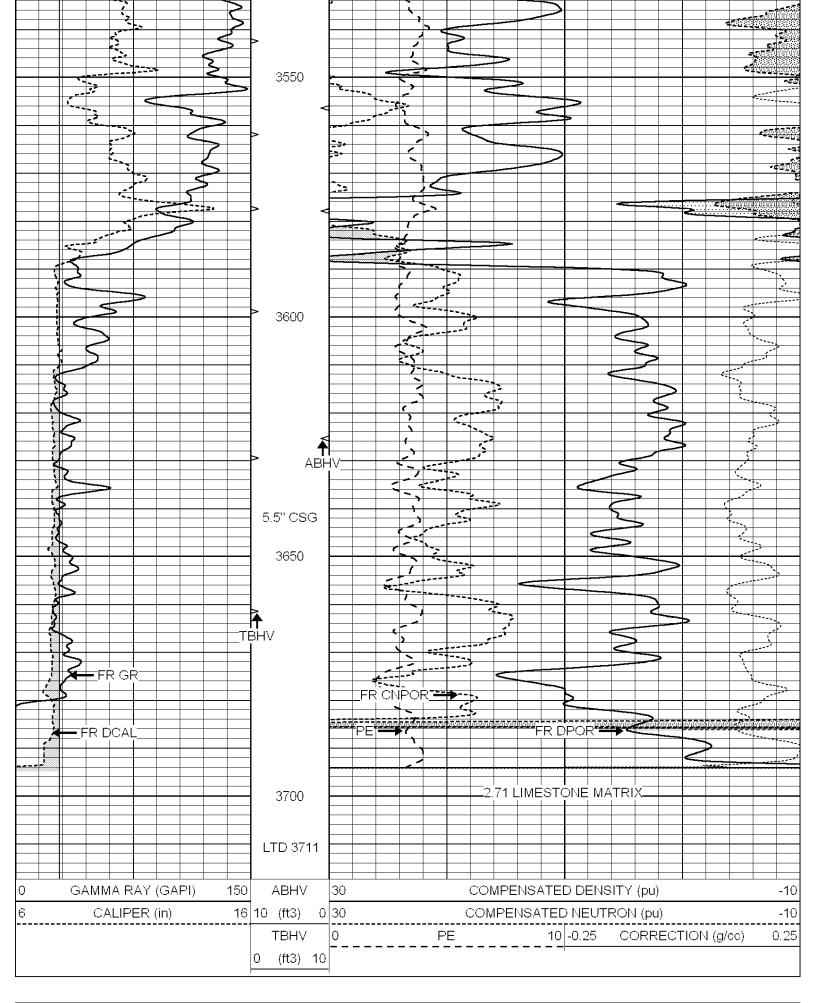
<<< Fold Here >>>

Database File: 009067pe.db pass3.1 Dataset Pathname: _ldt_neu Thu May 10 17:51:28 2012 by Calc Open-Cased 090629 Presentation Format: Dataset Creation: Charted by: Depth in Feet scaled 1:240 COMPENSATED DENSITY (pu) GAMMA RAY (GAPI) 150 **ABHV** 0 30 -10 6 CALIPER (in) 16 10 (ft3) 0 30 COMPENSATED NEUTRON (pu) -10 **TBHV** 0 PΕ 10 -0.25 CORRECTION (g/cc) 0.25 (ft3) 10 2700 2750 - 2.45g.T 2800 2850











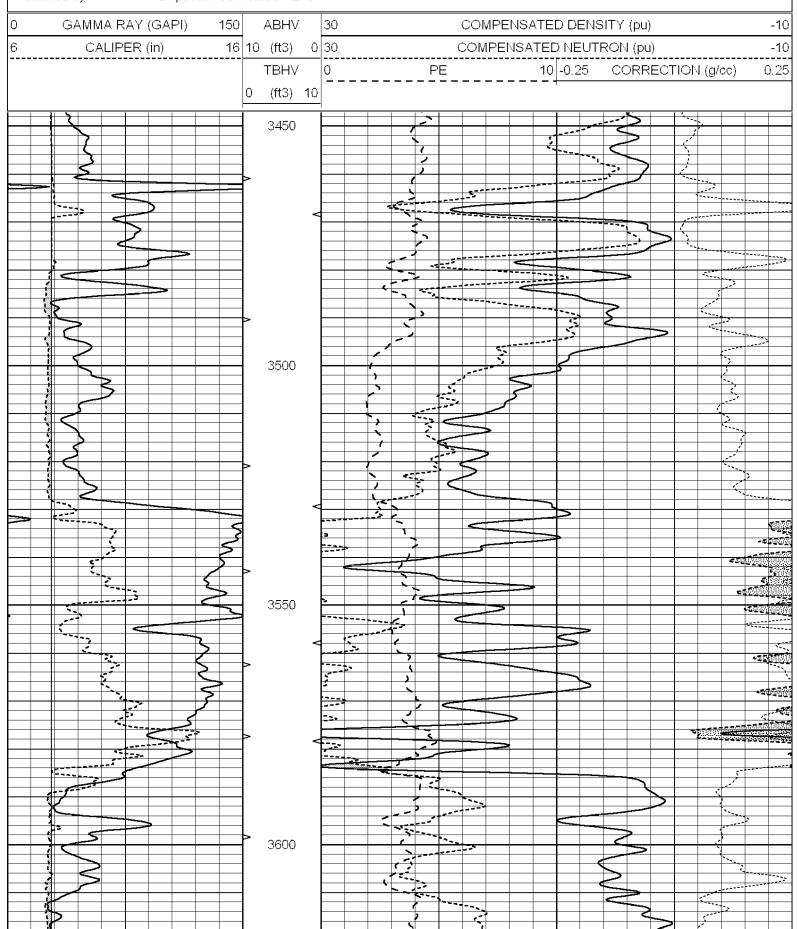
REPEAT SECTION

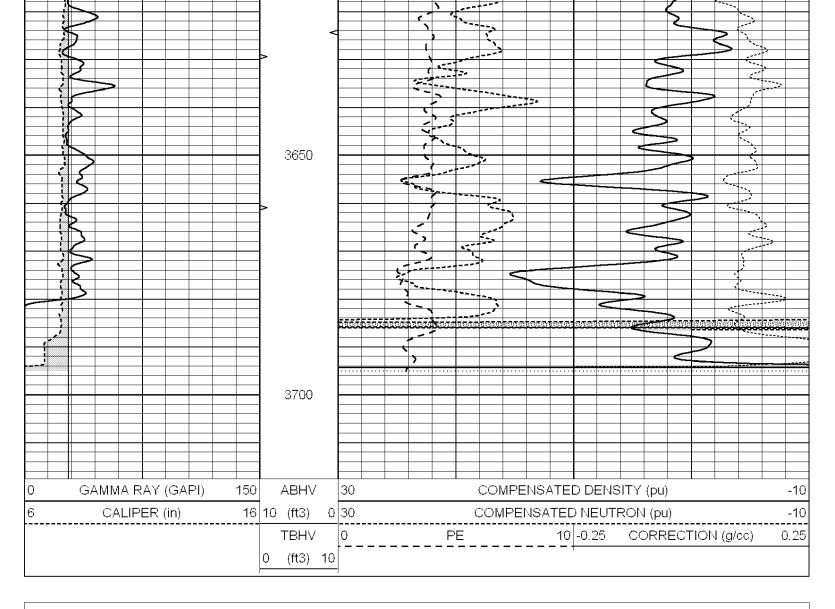


009067pe.db Database File: Dataset Pathname: pass2.1 Presentation Format:

__ldt__neu Thu May 10 17:44:12 2012 by Calc Open-Cased 090629 Dataset Creation:

Charted by:





Calibration Report

Database File: 009067pe.db Dataset Pathname: pass2.1

Dataset Creation: Thu May 10 17:44:12 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:

PROBE8-DILG

Surface Cal Performed: Downhole Cal Performed: Fri Aug 01 06:33:19 2008 Mon Jul 28 11:08:27 2008 Mon Jul 28 11:08:27 2008

After Survey Verification Performed:

Surface Calibration Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole	Calibration
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Readings	References	Results

Zero Cal Zero Cal m' b'

Deep Medium LL3	0.000 0.000	0.000 0.000 7.500 0.000 -7.200	mmho/m mmho/m V V	2.011 7.590	405.777 503.393 1500.000 20.000 3800.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	1.000 1.000	0.000 0.000
After Survey V	erification	Readings			Targets		Re	sults
	Zero	Cal		Zero	Cal		m'	þ'
Deep Medium LL3	0.000 0.000	0.000 0.000 1.000 0.000 1.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	0.000 0.000	0.000 0.000 1.000 0.000 1.000	mmho/m mmho/m Ohm-m Ohm-m mmho-m	0.000 0.000	0.000 0.000
Litho Density Calibration Report Serial: 002 Model: PRB Performed Mon Apr 02 18:34:45 2012								
Litho Density Ca	llibration							
	Backgroui	nd —	Magnesium	AI	uminum	Sar	ndstone	
Window 1 Window 2 Window 3 Window 4 Long Space Short Space Rho Pe).7).4	7347.3 6010.4 3295.4 200.9 5189.7 1012.5 1.7100		2308.1 1961.8 1229.9 202.7 1141.2 681.4 2.5900 2.5700		8190.4 6596.5 3546.4 203.6 5775.9 1078.9 1.3800 1.5500	cps cps cps cps cps cps g/cc
Rib Angle Spine Angle	: 45.3 Rib Slope : 75.3 Spine Slope		: 1.012 : 3.825			: 0.562 : -17.9		
Caliper Low Ref High Ref	Readings 3.7 6.1 Gain: 2.5		Reference 8.0 14.0	Off	set: -1.3			
			Compensated	Neutron Calibr	ation Report			
			Serial Numbei Tool Model:	r: 61 G				
CALIBRA	NOIT							
	Detector		Readings	Targe	t	Norma	lization	
	Short Space Long Space		1.00 cps 1.00 cps		cps cps	1.0000 1.0000		
			Gamma F	Ray Calibration	Report			
Serial I Tool M Perforr			#8 OPEN Mon Ju	ın 13 16:56:43 2	2011			
Calibra	itor Value:		150.0	G	API			
	ound Reading tor Reading:	j:	0.0 175.0	ct ct				
Sensiti	∨ity:		0.8371	G	API/cps			

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Shari Feist Albrecht, Chair Jay Scott Emler, Commissioner Pat Apple, Commissioner

October 07, 2015

Adam T. Kennedy Valhalla Exploration LLC 8100 E 22ND ST N BLDG 1800-2 WICHITA, KS 67226-4022

Re: Plugging Application API 15-185-23747-00-00 HELMERS 1-1 SE/4 Sec.01-22S-12W Stafford County, Kansas

Dear Adam T. Kennedy:

The Conservation Division has received your Well Plugging Application (CP-1).

Under K.A.R. 82-3-113(b)(2), you must notify DISTRICT 1 of your proposed plugging plan at least 5 days before plugging the well. DISTRICT 1's phone number is (620) 225-8888. Failure to notify DISTRICT 1, or failure to file a Well Plugging Record (CP-4) after the well is plugged will result in a penalty recommendation.

Under K.A.R. 82-3-600, you must file an Application for Surface Pit (CDP-1) if you wish to use a workover pit while plugging the well. Failure to timely file a CDP-1, failure to timely remove fluids, or failure to timely file Closure of Surface Pit (CDP-4) or Waste Transfer (CDP-5) forms will result in a penalty recommendation.

This receipt does NOT constitute authorization to plug this well if you do not otherwise have the legal right to do so.

This receipt is VOID after April 07, 2016. If the well is not plugged by then, you will have to submit a new CP-1 if you wish to plug the well.

The April 07, 2016 deadline does NOT override any compliance deadline given to you by Legal, District, or other Commission Staff. Failure to comply with any given deadline will still result in the Commission assessing penalties, or taking other legal action.

Sincerely, Production Department Supervisor

cc: DISTRICT 1