

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1247407

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No. 15		
Name:	Spot Description:		
Address 1:	SecTwpS. R		
Address 2:	Feet from		
City: State: Zip:+	Feet from _ East / _ West Line of Section		
Contact Person:	Footages Calculated from Nearest Outside Section Corner:		
Phone: ()	□NE □NW □SE □SW		
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
☐ New Well ☐ Re-Entry ☐ Workover			
□ Oil □ WSW □ SHOW □ 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:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet		
Operator:	If Alternate II completion, cement circulated from:		
Well Name:	feet depth to:w/sx cmt.		
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer Commingled Permit #: Dual Completion Permit #: SWD Permit #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite:		
☐ ENHR Permit #: ☐ GSW Permit #:	Operator Name:		
GSW Permit #:	Lease Name: License #:		
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec. Twp. S. R. East West County: Permit #:		

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY				
Confidentiality Requested				
Date:				
Confidential Release Date:				
Wireline Log Received				
Geologist Report Received				
UIC Distribution				
ALT I II III Approved by: Date:				

Page Two



Operator Name: Lease Name: _ _ Well #: _ County: _ INSTRUCTIONS: Show important tops 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. Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF). **Drill Stem Tests Taken** No Loa Formation (Top), Depth and Datum Sample | Yes (Attach Additional Sheets) Name Top Datum No Samples Sent to Geological Survey Yes ☐ No Yes
 Yes
 ■
 Yes
 ■
 Yes
 ■
 Nes
 Nes Cores Taken Electric Log Run ___ Yes No List All E. Logs Run: CASING RECORD New Used Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Size Casing Weight Setting Type of # Sacks Type and Percent Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Depth Cement Used Additives ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth Type of Cement # Sacks Used Type and Percent Additives Top Bottom Perforate **Protect Casing** Plug Back TD Plug Off Zone Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3) No Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes (If No, skip question 3) Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? (If No, fill out Page Three of the ACO-1) Yes PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated Depth (Amount and Kind of Material Used) TUBING RECORD: Size: Set At: Packer At: Liner Run: Yes No Date of First, Resumed Production, SWD or ENHR. Producing Method: Flowing Pumping Gas Lift Other (Explain) **Estimated Production** Oil Bbls Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Per 24 Hours METHOD OF COMPLETION: DISPOSITION OF GAS: PRODUCTION INTERVAL: Open Hole Perf. Dually Comp. Commingled Vented Sold Used on Lease (Submit ACO-5) (Submit ACO-4) (If vented, Submit ACO-18.) Other (Specify)

Form	ACO1 - Well Completion		
Operator	H & B Petroleum Corp.		
Well Name	Horner 1		
Doc ID	1247407		

All Electric Logs Run

Computer Processed Interpretation		
Dual Compensated Porosity		
Dual Induction		
Borehole Compensated		
Microresistivity		

Form	ACO1 - Well Completion		
Operator	H & B Petroleum Corp.		
Well Name	Horner 1		
Doc ID	1247407		

Tops

Name	Тор	Datum
Anhydrite	951	
Base Anhydrite	973	
Heebner	3405	
Toronto	3422	
Douglas	3440	
Brown Lime	3515	
Lansing	3522	
Base Kansas City	3767	
Conglomerate Sand	3855	
Viola	3884	
Simpson Shale	3914	
Simpson Sand	3923	
Arbuckle	3958	

1434

GLOBAL CEMENTING, L.L.C.

REMIT TO 18048 170RD SERVICE POINT: RUSSELL, KS 67665 TWP. CALLED OUT ON LOCATION JOB START JOB FINISH SEC. RANGE DATE STATE COUNTY LEASE WELL#. LOCATION OLD OR NEW (CIRCLE ONE) CONTRACTOR **OWNER** TYPE OF JOB HOLE SIZE T.D. CEMENT CASING SIZE DEPTH AMOUNT ORDERED_ DEPTH TUBING SIZE DRILL PIPE DEPTH TOOL DEPTH PRES. MAX MINIMUM COMMON ___ _ @ _ MEAS. LINE SHOE JOINT CEMENT LEFT IN CSG. PERFS CHLORIDE _ DISPLACEMENT **EQUIPMENT** @ _ PUMP TRUCK CEMENTER @ # 1 HELPER (a) **BULK TRUCK** @_ # 133 DRIVER @_ **BULK TRUCK** @_ DRIVER (a) HANDLING_ (a) MILEAGE TOTAL REMARKS: **SERVICE** DEPTH OF JOB __ PUMP TRUCK CHARGE EXTRA FOOTAGE____ _ @ _ MILEAGE _ MANIFOLD -- @ -_ (a) _ @ CHARGE TO: TOTAL -STREET ____ __STATE ___ PLUG & FLOAT EQUIPMENT Global Cementing, L.L.C., 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	William	Sandiers		
THE THE PARTY OF	1 - 11	- (/ / /		
SIGNATURE	Te Villians	New Som		

TOTAL _____

SALES TAX (If Any)_

(a)

1447

GLOBAL CEMENTING, L.L.C.

REMIT TO 18048 170RD RUSSELL, KS 67665				SERVICE POINT:			
DATE 4-14-14	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE A	WELL#.	I	LOCATION			COUNTY	STATE
OLD OR NEW (C)							
CONTRACTOR 5	out hus ad	DON.	R. Hz	OWNER			
	14	200	77			198	
HOLE SIZE	3	T.	D.	CEMENT	7.50	35 /	her y
CASING SIZE		D	EPTH	AMOUNT ORD	ERED	64 rc	12001
TUBING SIZE			EPTH				4-1
DRILL PIPE			EPTH				
TOOL			EPTH			- 1	
PRES. MAX			INIMUM				
MEAS, LINE	10	Si	HOE JOINT		(
CEMENT LEFT IN CS PERFS	SG.						
DISPLACEMENT							
DISPLACEMENT	EQUIPMI	ENT				0	5. P. L. S. S.
	EQUITM	D1 1 1				@	
PUMP TRUCK (CEMENTER	Cools				@	
Cord	HELPER	Bird				@	T. T.
BULK TRUCK		2	- T / VIII			@	
# 53 1	DRIVER	Payton				@	
BULK TRUCK						@	1000
# I	DRIVER					@	
		4 0 2				@	al circle
				MILEAGE		TOTAL	
	REM	ARKS:				TOTAL	
505K5	3,95						
-305KS	96	6			SEI	RVICE	
50957	660)					
30565	240	,		DEPTH OF JOB			
205/15	60				CHARGE		
3.6- 4065	25			EXTRA FOOTA	GE	@	
nerks di	5			MILEAGE		@	
	To be			MANIFOLD —		@ ———	
						@ ———	-
	1 0 -1	0				@ ———	
CHARGE TO:	+ + 5 /	0-80					
STREET						TOTAL	
CITY		71	D				
	STATE_	- 41			PLUG & FLO	AT EQUIPMEN	T
Global Cementing,	L.L.C.					@	
		rent ceme	nting equipment and			@	
			wner or contractor to				TO STATE OF THE PARTY OF
			s done to satisfaction				
and supervision of	owner age	nt or contra	ctor. I have read and				
understand the "C	GENERAL	TERMS A	ND CONDITIONS"		7,1 1		
listed on the revers	e side.		- 19			TOTAL	
7	1111	-	Marin				
PRINTED NAME	211116,	200	CARL KAR	SALES TAX (If	Any)		
. 1	1.01	4	- 6				3-1
PRINTED NAME	il lees	- 540	- Comment		ES		E DAID IN 20 DAY
				DISCOUNT		The state of the s	F PAID IN 30 DAYS



H&B Petoleum

PO Box 277

8-22s-15w Pawnee,KS

Hormer #1

Job Ticket: 60266

DST#:1

Test Start: 2014.09.10 @ 12:58:00

ATTN: Jim Musgrove

GENERAL INFORMATION:

Time Tool Opened: 14:30:30

Time Test Ended: 18:54:00

Formation:

LKC "A-B"

Deviated:

interval:

No

Whipstock:

ft (KB)

Elinwood, KS 67526+0277

Test Type:

Conventional Bottom Hole (Initial)

Tester:

Ken Swinney

Unit No:

S1

Reference Elevations:

1993.00 ft (KB)

1984.00 ft (CF)

KB to GR/CF:

9.00 ft

Total Depth: Hole Diameter:

Serial #: 6749

Press@RunDepth:

Inside

68.51 psig @

3565.00 ft (KB) (TVD)

3561.00 ft (KB)

2014.09.10

Capacity:

8000.00 psig

Start Date: Start Time: 2014.09.10 12:59:00

End Date: End Time:

18:54:00

Last Calib.:

2014.09.10

Time On Btm:

2014.09.10 @ 14:30:00

Time Off Btm:

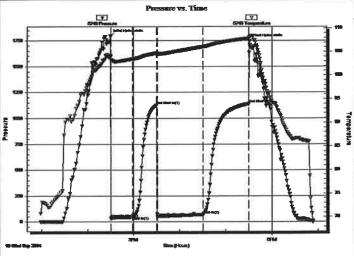
2014.09.10 @ 17:31:00

TEST COMMENT: IFP 30 Weak blow built to 4 1/2"

ISI 30 No blow back FFP 30 Fair blow built to 6" FSI 30 No blow back

3519.00 ft (KB) To 3565.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair



	(Min.)	(psig)	(deg F)	
	0	1792.94	103.93	Initial Hydro-static
	1	35.38	103.22	Open To Flow (1)
ij	29	51.87	103.45	Shut-ln(1)
ľ	60	1126.70	104.70	End Shut-In(1)
100	61	49.19	104.49	Open To Flow (2)
National Property of the Prope	121	68.51	106.04	Shut-In(2)
3	180	1138.28	107.82	End Shut-In(2)
	181	1745.44	108.06	Final Hydro-static
		1		8

PRESSURE SUMMARY

Pressure Temp Annotation

Recovery

Length (ft)	Description	Volume (bbl)
0.00	45 feet of gas in pipe/Gas 100%	0.00
75.00	Lightly oil cut mud/Oil 1% Mud 99%	1.05

Gas Rates				
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)		

Trilobite Testing, Inc

Ref. No: 60266

Printed: 2014.09.16 @ 09:29:14



H&B Petoleum

8-22s-15w Pawnee, KS

PO Box 277

Elinwood, KS 67526+0277

Job Ticket: 60267

Hormer #1

DST#: 2

ATTN: Jim Musgrove

Test Start: 2014.09.12 @ 01:38:00

GENERAL INFORMATION:

Time Tool Opened: 03:27:30 Time Test Ended: 07:42:00

Formation:

Kendrick sand - Viol

Deviated:

Whipstock:

ft (KB)

Test Type: Tester:

Conventional Bottom Hole (Initial)

Ken Sw inney

Unit No:

Ş1

3795.00 ft (KB) To 3910.00 ft (KB) (TVD)

Interval: Total Depth: Hole Diameter:

3910.00 ft (KB) (TVD)

Reference Bevations:

1993.00 ft (KB)

1984.00 ft (CF)

7.88 inches Hole Condition: Fair

KB to GR/CF:

9.00 ft

Serial #: 6749

Press@RunDepth:

Inside

77.86 psig @

3906.17 ft (KB)

2014.09.12

Capacity:

8000.00 psig

Start Date: Start Time:

2014.09.12 01:39:00

End Date: End Time:

07:42:00

Last Calib.: Time On Btm: 2014.09.12

Time Off Btm:

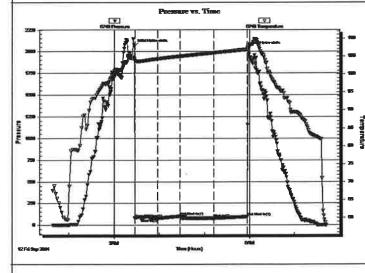
2014.09.12 @ 03:27:00 2014.09.12 @ 05:58:30

TEST COMMENT: IFP 30 Weak blow built to 2 1/2 inches

ISI 30 No blow back

FFP 45 Dead no blow - Flush tool - Weak blow built to 1"

FSI 45 No blow back



_				
PRESSURE SUMMARY				
1	Time	Pressure	Temp	Annotation
1	(Min.)	(psig)	(deg F)	
	0	2062.62	104.27	Initial Hydro-static
	1	81.39	103.76	Open To Flow (1)
	31	76.90	104.28	Shut-ln(1)
	60	100.59	104.97	End Shut-In(1)
1	61	98.98	104.98	Open To Flow (2)
	105	77.86	105.94	Shut-In(2)
8	150	95.24	106.88	End Shut-In(2)
	152	2034.49	108.04	Final Hydro-static
Н				

Recovery

Length (ft)	Description	Volume (bbl)	
20.00	Mud 100%	0.28	

Gas	Rates

Choke (inches)

Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc.

Ref. No: 60267

Printed: 2014.09.16 @ 09:28:43



H&B Petoleum

8-22s-15w Pawnee, KS

PO Box 277

Ellinwood, KS 67526+0277

Hormer #1

Job Ticket: 60268

DST#: 3

Test Start: 2014.09.12 @ 16:34:00

GENERAL INFORMATION:

Formation:

Arbuckle

Deviated: Time Tool Opened:

Whipstock: No

ft (KB)

ATTN: Jim Musgrove

Test Type:

Conventional Bottom Hole (Initial)

Tester: Unit No: Ken Swinney

Interval:

Time Test Ended: 19:41:30 3907.00 ft (KB) To 3967.00 ft (KB) (TVD)

1993.00 ft (KB)

Reference Bevations:

1984.00 ft (CF)

Total Depth:

3967.00 ft (KB) (TVD)

Hole Diameter:

7.88 inches Hole Condition: Poor

KB to GR/CF:

9.00 ft

Serial #: 6749 Press@RunDepth: Inside

psig @

3963.25 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2014.09.12 16:35:00

End Date:

2014.09.12

Last Calib.:

2014.09.12

End Time:

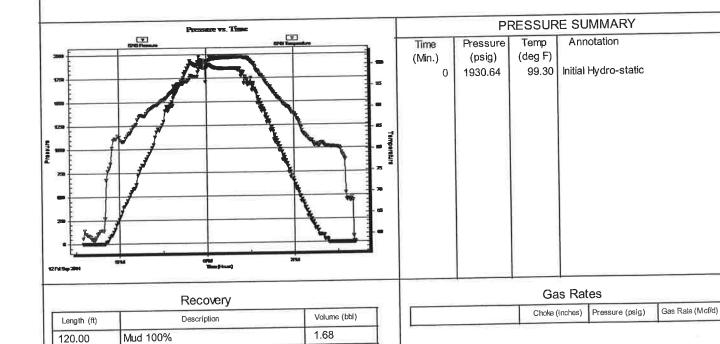
19:41:30

Time On Btm:

2014.09.12 @ 17:59:00

Time Off Btm:

TEST COMMENT: Packer failed on tool openning - Tried reset packer failed second time



Trilobite Testing, Inc

Ref. No: 60268

Printed: 2014.09.16 @ 09:28:21



H&B Petoleum

8-22s-15w Pawnee, KS

PO Box 277

Hormer #1

Elinwood, KS 67526+0277

Job Ticket: 60269

DST#:4

ATTN: Jim Musgrove

Test Start: 2014.09.12 @ 20:38:00

GENERAL INFORMATION:

Formation:

Simpson Sand - Arbuc

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 22:05:30 Time Test Ended: 02:54:00

Tester:

Ken Swinney

Interval:

3882.00 ft (KB) To 3967.00 ft (KB) (TVD)

Unit No:

1993.00 ft (KB)

Total Depth:

Reference Elevations:

3967.00 ft (KB) (TVD)

1984.00 ft (CF)

Hole Diameter:

7.88 inches Hole Condition: Poor

KB to GR/CF:

9.00 ft

Serial #: 6749 Press@RunDepth: Inside

220.34 psig @

3963.17 ft (KB)

Capacity:

8000,00 psig

Start Date:

2014.09.12

End Date:

2014.09.13

Last Calib.:

2014.09.13

Start Time:

20:39:00

End Time:

02:54:00

Time On Btm:

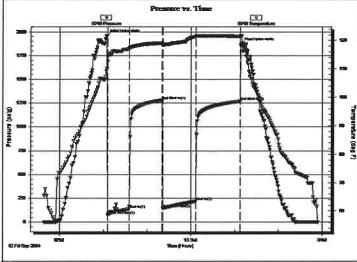
2014.09.12 @ 22:04:30

Time Off Btm:

2014.09.13 @ 01:09:00

TEST COMMENT: IFP 30 BOB in 18 1/2 min

ISI 45 No blow back FFP 45 BOB in 28 min FSI 60 No blow back



PRESSURE SUMMARY

- 43							
1	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	1951.68	109.98	Initial Hydro-static			
	1	74.77	112.60	Open To Flow (1)			
	31	137.99	117.06	Shut-ln(1)			
	76	1280.30	119.05	End Shut-In(1)			
	77	145.40	118.63	Open To Flow (2)			
ı	122	220.34	121.34	Shut-In(2)			
	183	1269.60	121.42	End Shut-In(2)			
7	185	1865.24	121.61	Final Hydro-static			
Ì							
1							

Recovery

Length (ft)	ength (ft) Description	
355.00	Slightly oil and gas cut muddy water	4.98
0.00	Gas 2% Oil 3% Mud 40% Water 55%	0.00

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 60269

Printed: 2014.09.16 @ 09:27:33