

Confiden	tiality Requested:
Yes	No

#### Kansas Corporation Commission Oil & Gas Conservation Division

1312083

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 🗌 East 🗌 West
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.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
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:	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 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 #:  ENHR Permit #:  GSW 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:  Operator Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter Sec.         TwpS. 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 III Approved by: Date:							



Operator Name:			Lease Name:			Well #:			
Sec Twp	S. R	East West	County:						
open and closed, flow	ring and shut-in pressu	ormations penetrated. Dres, whether shut-in pre	ssure reached stati	c level, hydrosta	tic pressures, bott				
		tain Geophysical Data a r newer AND an image f		gs must be ema	iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log		
Drill Stem Tests Taker (Attach Additional		Yes No			on (Top), Depth an		Sample		
Samples Sent to Geo	logical Survey	Yes No	Nam	Э		Тор	Datum		
Cores Taken Electric Log Run		Yes No							
List All E. Logs Run:									
		0.0000							
		CASING Report all strings set-o	RECORD Ne conductor, surface, inte		ion, 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		
		ADDITIONAL	CEMENTING / SQU	EEZE RECORD					
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives					
Perforate Protect Casing									
Plug Back TD Plug Off Zone									
Did you perform a hydrau	ulic fracturing treatment or	n this well?		Yes	No (If No, ski	o questions 2 an	nd 3)		
	· · · · · · · · · · · · · · · · · · ·	aulic fracturing treatment ex	_			o question 3)	of the ACO 1)		
was the hydraulic fractur	ring treatment information	submitted to the chemical of	disclosure registry?	Yes	No (If No, fill	out Page Three	of the ACO-1)		
Shots Per Foot		N RECORD - Bridge Plug potage of Each Interval Perf			cture, Shot, Cement mount and Kind of Ma		d Depth		
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No				
Date of First, Resumed	Production, SWD or ENH	R. Producing Meth		Gas Lift C	Other <i>(Explain)</i>				
Estimated Production Per 24 Hours	Oil B		Mcf Wate			ias-Oil Ratio	Gravity		
DISPOSITIO	ON OF GAS:	, and a second	METHOD OF COMPLE	TION:		PRODI ICTIC	ON INTERVAL:		
Vented Solo		Open Hole	Perf. Dually	Comp. Cor	nmingled	THODOUTIC	ZIN IINI ELIVAE.		
	bmit ACO-18.)	Other (Specify)	(Submit A		mit ACO-4)				

Form	CO1 - Well Completion				
Operator	Habit Petroleum, LLC				
Well Name	K Leiker 2				
Doc ID	1312083				

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	20	209	common	3%cc 2%gel

100 S. Main St., Suite #310, Wichita, Ks. 67202

04/21/16 0 Daily Drilling Mud Report Depth Operator Ria No 1 Habit Petroleum, LLC. Shields Drilling Company, Inc. Address Spud Date 04/21/16 Rig Rig Report for Mr. Section Range Report for Mr Twp **15S** Irvin E. Haselhorst George Begler 23 17W State K. Leiker #1' EI: 1959 GL est. Ellis Kansas Circulation Data Casing Mud Volume (BBL) Operation Hole Liner Size Stroke Opposite Drill Pipe Pump Pressure Present Activity 300 6 600 Spudding 0 14 63 8 5/8 in. at Est. Hole/DS capacities Opposite Drill Collars Pump Make Bit Size (in.) Intermediate Total Circulating Vol Bethlehem 12 1/4 1.1463 74 in. at Drill pipe sz Туре Production / Liner Volume in Storage BBV Strk Strk / Min. Bottoms Up (Min.) Pump Model 57 0 225 4 1/2 XH 0.139 in. at Drill Collar size Drilling mud type BBL./Mir GAL/Min. System Total (Min) Gel/Lime 7.9 333 38 6 1/4 233 Daily Mud Cost Cumulative Mud Cost 742.60 **Mud Properties** 742.60 Flowline Temperature MUD PROPERTIES SPECIFICATIONS Time Sample Taken 8:39 AM Mud Wt.(lbs/gal.) Viscosity LCM 9.4-10.0 36-40 No Cont 2-3 ppb. Depth (Ft.) 0 Weight (lb/gal.) Suggest for surface hole: Mud Gradient (psi/ft.) 1. Spud with 36-40 vis of gel and lime slurry. Funnel Viscosity (Sec/qt. API) 2. Have weight of 9.4 to 10.0 ppg. @ surface TD. Plastic Viscosity cp 3. Mix 6 sx. Hulls and add more as needed for LCM of 2-3 ppb. Yield Point (lb/100 sq.ft.) Gel Strength 10 sec/10 min. Suggest to mud up: Filtrate API (ml/30 min.) 1. Run plenty of fresh water and jet as needed. Cake Thickness 32nd 2. Flush hole as needed with the following: Alkalinity, Mud (Pm) Makeup Water 40 bbls. Fresh water Alkalinity, Filtrate (Pf/Mf) 10-15 sx. Gel Chloride Content, ppm 410 1/2 sx. Lime (Add just before adding to system) Calcium. ppm 195 3. If hole pulls tight, add 2-3 gallons of Poly Plus down the Sand Content (% by Vol) pipe on connections. Solids Content (% by Vol.) If loss circulation does occur, mix and add Oil Content (% by Vol.) the following: Water Content (% by Vol.) 80 bbls. Fresh water LCM, lbs/bbl. 20 sx. Gel Reynold's #DP #DIV/0! #DIV/0! 18 sx. c/s hulls Reynold's # DC 1/2 sx. Lime (Add just before adding to system) ECD lb/gal #DIV/0! 5. Displace @ 2800' (or per Geo's orders) DRILLING MUD INVENTORY 6. Fill frac tank with the following: Used Cost Products: Prior Day Delivery On Hand 80 bbls. Fresh water 23 sx. Gel 280 245 35 598.85 Premium Gel 3 sx. Soda ash 5 10.23 6 Lime 1 sx. Caustic soda 28 28 Soda Ash 1 sx. Lignite 19 19 Caustic Soda 15 15 1/3 sx. Pac Lianite 3 sx. c/s hulls 133.52 C/S Hulls 150 142 7. Always Keep Hole Full! 6 6 8. Always Circulate Hole Clean Before Trips. 2 2 # 9. Always Keep Mud Skids Covered. Poly Plus s.bicarb Thank You Sapp Barite Multi Seal Mud-Co / Service Mud Representative Home Address Telephone Number 785-259-2757 Hays, Ks Gary Schmidtberger Warehouse Location Telephone Number

Hays, Ks

Cell: 785-259-2757

Report:

785-621-4232

100 S. Main St., Suite #310, Wichita, Ks. 67202

04/22/16 212 Depth Date: Daily Drilling Mud Report Rig No. Contractor 1 Shields Drilling Company, Inc. Habit Petroleum, LLC. Spud Date Address 04/21/16 Rig Rig Report for Mr. Section Range Report for Mr. Twp 155 17W 23 George Begler Irvin E. Haselhorst State K. Leiker #1` El: 1959 GL est. Ellis Kansas Circulation Data Mud Volume (BBL) Operation Liner Size Stroke Opposite Drill Pipe Pump Pressure Hole Present Activity WOC 209 18 400 6 14 195 600 8 5/8 in. at Opposite Drill Collars Bit Size (in.) Intermediate Total Circulating Vol Est. Hole/DC capacities Pump Make No 1 356 Bethlehem 418 1.1463 7 7/8 in. at Pump Model BBI/ Strk Strk / Min. Bottoms Up (Min.) Drill pipe sz Туре Production / Liner Volume in Storage 225 XH 0.139 57 2 4 1/2 in. at Drilling mud type System Total (Min) Critical GPM DC/DF Drill Collar size BBL./Min. GAL/Min #DIV/0! #DIV/0! 7.9 333 53 233 Native/Premix 6 1/4 Cumulative Mud Cost Daily Mud Cost Sample from Flowline 842.74 100.14 Flowline Temperature **Mud Properties** MUD PROPERTIES SPECIFICATIONS Time Sample Taken 7:15 AM Mud Wt (lbs/gal.) Viscosity As needed. 212 9.0 - 9.5As needed No cont Depth (Ft.) Weight (lb/gal.) Suggest to mud up: 0.000 Mud Gradient (psi/ft.) Funnel Viscosity (Sec/qt. API) Run plenty of fresh water and jet as needed. Plastic Viscosity cp 2. Flush hole as needed with the following: Yield Point (lb/100 sq.ft.) 40 bbls. Fresh water Gel Strength 10 sec/10 min. 10-15 sx. Gel 1/2 sx. Lime (Add just before adding to system) Filtrate API (ml/30 min.) 3. If hole pulls tight, add 2-3 gallons of Poly Plus down the Cake Thickness 32nd pipe on connections. Alkalinity, Mud (Pm) 4. If loss circulation does occur, mix and add Alkalinity, Filtrate (Pf/Mf) the following: Chloride Content, ppm 80 bbls. Fresh water Calcium. ppm 20 sx. Gel Sand Content (% by Vol) 18 sx. c/s hulls Solids Content (% by Vol.) 1/2 sx. Lime (Add just before adding to system) Oil Content (% by Vol.) 5. Displace @ 2800' (or per Geo's orders) 100.0 Water Content (% by Vol.) 6. Fill frac tank with the following: LCM, lbs/bbl 80 bbls. Fresh water #DIV/0! Reynold's #DP #DIV/0! 23 sx. Gel Reynold's # DC 3 sx. Soda ash ECD lb/gal #DIV/0! 1 sx. Caustic soda DRILLING MUD INVENTORY Cost 1 sx. Lignite Used Products: Prior Day Delivery On Hand 1/3 sx. Pac 3 sx. c/s hulls 245 245 Premium Gel 7. Always Keep Hole Full! 5 8. Always Circulate Hole Clean Before Trips. 28 28 Soda Ash 9. Always Keep Mud Skids Covered. 19 19 Caustic Soda 15 15 Lignite Thank You 136 100.14 142 C/S Hulls 6 6 Desco Poly Plus Florige Barite Multi Seal Telephone Number Mud-Co / Service Mud Representative Home Address 785-259-2757 Hays, Ks Gary Schmidtberger Telephone Number Warehouse Location Hays, Ks 785-621-4232 Cell: 785-259-2757

Report:

100 S. Main St., Suite #3	310, Wichita,Ks. 6	7202			_			Report:	4	
Daily Drilling Mud Report						Date:	04/23/16	Depth:	1616	
perator  Habit Petroleu	ım. LLC.		Contractor Shields Drilli	па Сотр	anv. Inc		Rig No.	1		
ddress Rig	,		Address <b>Rig</b>		,		Spud Date	1/21/16		
eport for Mr.			Report for Mr.	V .V			Section	Twp F	Range	
Irvin E. Haself	horst/Duane Stee	klein	George Begle	er		State	23	15S	17W	
K. Leiker #1`	EI: 1959 GL		Ellis				Kansas			
peration	Casing	Mu Hole	id Volume (BBL) Pits	Liner Size	Stroke		Circulation Data ite Drill Pipe	Pump Pressure		
resent Activity  Drilling 8 5/8	in. at 209	134	400	6	14	Opposi	195		00	
it Size (in.) No	Intermediate	Total Circulati		Est. Hole/DS ca		Opposi	ite Drill Collars 356	Pump Make	lehem	
7 7/8 1	in. at Production / Liner	Volume in St		BBI/ Strk		Bottom	is Up (Min.)	Pump Model		
4 1/2 XH	in. at		Volume	0.139	57 GAL/Min.	0 1	17 n Total (Min)	Critical GPM D	25	
orill Collar size Drilling multiple Collar Size	Native/Premix			BBL./Min. <b>7.9</b>	333	System	67	#DIV/0!	#DIV/	
ample from Flowline or Pit	1		Daily Mud Cost			Cumu	lative Mud Cost	0.4	0.74	
lowline Temperature	Mud Pro	perties		0.0				84	2.74	
Timo Cample Takes	7:31 AM		Mud Ma (the feet)	Visco		ES SP	ECIFICATIONS Filtrate	1	СМ	
Time Sample Taken Depth (Ft.)	1,616		Mud Wt.(lbs/gal.) 9.4-9.8	As ne	*		No cont	70000	eded.	
Weight (lb/gal.)	9.6	_	3.4-3.0	ASTIC	cucu		NO COM	AOTA	Jourou.	
Mud Gradient (psi/ft.)	0.499	1	Suggest to mu	ud up:						
Funnel Viscosity (Sec/qt. API)	30		ouggest to m	and alp.						
Plastic Viscosity cp			1. Run plenty of							
Yield Point (lb/100 sq.ft.)			2. Flush hole a				ving:			
Gel Strength 10 sec/10 min.				40 bbls.		ter				
ρΗ	7.0	11/	]	10-15 sx				1,		
Filtrate API (ml/30 min.)	NC		0 15 1-1 11-	1/2 sx. Lime (Add just before adding to system)  3. If hole pulls tight, add 2-3 gallons of Poly Plus dovn the						
Cake Thickness 32nd					2-3 gallon	is of	Poly Plus do	vn tne		
Alkalinity, Mud (Pm)		_	pipe on conf 4. If loss circu		o occur	miv	and add			
Alkalinity, Filtrate (Pf/Mf) Chloride Content, ppm	32,000	-	the followin		is occur,	IIIIA	and add			
Calcium. ppm	Hvy		1	80 bbls.	Fresh w	ater	,			
Sand Content (% by Vol)	Tr		1	20 sx. G						
Solids Content (% by Vol.)	7.4		1	18 sx. c/						
Oil Content (% by Vol.)	0.0			1/2 sx. L	ime (Add	d jus	st before add	ng to sy	stem)	
Water Content (% by Vol.)	92.6		5. Displace @ 2	2800' (or pe	er Geo's o	ordei	rs)			
LCM, lbs/bbl.	Nil		6. Fill frac tan	k with the	followin	g:				
Reynold's #DP	#DIV/0!		-	80 bbls. 23 sx. G		ater				
Reynold's # DC ECD lb/gal	#DIV/0! #DIV/0!		-	3 sx. So						
DRILLING MUD II			-		ustic so	da				
Products: Prior Day Deliver		Cost		1 sx. Lig		ar ca				
	,		#	1/3 sx. Pa						
remium Gel 245	245		#	3 sx. c/s	hulls					
ime 5	5		# 7. Always Keep		D-1	· ·	in a			
oda Ash 28	28		# 8. Always Circul	ate Hole Cl	ean Befor	e In	ps.			
austic Soda 19	19		9. Always Keep	Mua Skia	s covere	u.				
ignite 15 //S Hulls 136	15 136		Thank You							
orill Pak 6	6	_	#							
esco 2	2		#							
oly Plus 2	2		#							
origel			#							
cide			#							
			#							
арр			4"							
Barite			To the second se							
Barite			- "							
lulti Seal  //ud-Co / Service Mud Representati	ive	Home Addr					hone Number			
arite	ive	Home Addr Hays, Ks	5			785-	hone Number -259-2757 hone Number			

100 S. Main St., Suite #310, Wichita, Ks. 67202

04/24/16 Date: Depth: 2587 Daily Drilling Mud Report Rig No. Contractor Operator 1 Habit Petroleum, LLC. Shields Drilling Company, Inc. Spud Date Address 04/21/16 Rig Rig Report for Mr. Section Range Report for Mi Irvin E. Haselhorst/Duane Stecklein **15S** 17W George Begler 23 Well Name & No County K. Leiker #1` EI: 1959 GL est. Ellis Kansas Operation Casing Mud Volume (BBL) Circulation Data Pump Pressure Present Activity Hole Liner Size Stroke Opposite Drill Pipe 209 215 400 6 14 195 700 Drilling 8 5/8 in. at Bit Size (in.) Total Circulating Vol Est. Hole/DS capacities Opposite Drill Collars Pump Make Intermediate 1 356 Bethlehem 7 7/8 in. at 1.1463 Pump Model Drill pipe sz Production / Liner Volume in Storage BBI/ Strk Strk / Min. Bottoms Up (Min.) XH Frac is Full 0.13957 27 225 4 1/2 in. at Drill Collar size Drilling mud type BBL./Min GAL/Min. System Total (Min) Critical GPM DC/DF #DIV/0! #DIV/0! 233 Chemical 7.9 333 78 6 1/4 Daily Mud Cost Cumulative Mud Cost Sample from Flowline 5,000.45 Mud Properties 4,157.71 Flowline Temperature MUD PROPERTIES SPECIFICATIONS 8:00 AM Time Sample Taken Mud Wt.(lbs/gal.) Viscosity LCM 1-3 ppb. 9.4-9.8 50-55 8-10cc Depth (Ft.) 2,587 Weight (lb/gal. Suggest after displacement @ 2800: 0.510 Mud Gradient (psi/ft.) Funnel Viscosity (Sec/qt. API) 30 1. Run stream of water @ flowline to control wt. & vis. Plastic Viscosity cp Yield Point (lb/100 sq.ft.) If more vis is required, mix gel in pit mud. Gel Strength 10 sec/10 min. 7.0 If hole pulls tight, add Poly Plus down the pipe on connection. Filtrate API (ml/30 min.) NC Cake Thickness 32nd 4. When mud wt. climbs above 9.7, mix and add the following: Alkalinity, Mud (Pm) 80 bbls. Fresh water Alkalinity, Filtrate (Pf/Mf) 23 sx. Gel Chloride Content, ppm Hvy Calcium. ppm 3 sx. Soda ash 1 sx. Caustic Soda Sand Content (% by Vol) Tr 1 sx. Lignite 6.8 Solids Content (% by Vol.) Oil Content (% by Vol.) 0.0 1/3 sx. Pac Water Content (% by Vol.) 3 sx. c/s hulls 93.2 LCM, lbs/bbl Jet & gun a pit before adding to system. Reynold's #DP #DIV/0! Add over 1 1/2 hour period. Reynold's # DC #DIV/0! ECD lb/gal #DIV/0! 5. Always Keep Hole Full! DRILLING MUD INVENTORY Products: Prior Day Delivery On Hand Used Cost 6. Always Circulate Hole Clean Before Trips. 111 134 2,292.74 245 Premium Gel 7. Always Keep Mud Skids Covered. 5 28 10 18 432.72 Soda Ash 375.12 19 13 6 Caustic Soda 15 9 6 159.60 THANK YOU Lignite 136 119 17 283.73 C/S Hulls 6 613.80 4 2 2 Desco Poly Plus Florigel Rarite Multi Seal Mud-Co / Service Mud Representative Home Address Telephone Number Hays, Ks 785-259-2757 Gary Schmidtberger Warehouse Location Telephone Number 785-621-4232 Cell: 785-259-2757 Hays, Ks

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Report

100 S. Main St., Suite #310, Wichita, Ks. 67202

04/24/16 2822 Depth: Daily Drilling Mud Report Contractor Ria No. Operator 1 Shields Drilling Company, Inc. Habit Petroleum, LLC. Spud Date Address 04/21/16 Rig Rig Report for Mr. Section Range Report for Mr Two **15S** Irvin E. Haselhorst/Duane Stecklein 17W George Begler 23 State K. Leiker #1` EI: 1959 GL est. Ellis Kansas Circulation Data Mud Volume (BBL) Operation Casing Stroke Liner Size Opposite Drill Pipe Hole Present Activity 195 700 Drilling 209 150 300 6 14 8 5/8 in. at Pump Make Est Hole/DS capacities Opposite Drill Collars Bit Size (in.) No Intermediate Total Circulating Vol 356 Bethlehem 1 1.1463 7 7/8 in at Strk / Min. Production / Liner Volume in Storage BBI/ Strk Bottoms Up (Min.) Pump Mode Drill pipe sz Туре 19 225 4 1/2 XH 40 bbls. Fresh mud 0.139 57 in. at BBL./Min GAL/Min. System Total (Min) Critical GPM DC/DP Drill Collar size Drilling mud type 7.9 333 57 404 614 Chemical 6 1/4 233 Cumulative Mud Cost Daily Mud Cost Sample from Flowline 5,000.45 0.00 **Mud Properties** Flowline Temperature MUD PROPERTIES SPECIFICATIONS 2:37 PM Mud Wt.(lbs/gal.) LCM Time Sample Taken 50-55 8-10cc 1-3 ppb. Depth (Ft.) 9.4 - 9.82,822 Weight (lb/gal.) Suggest: Mud Gradient (psi/ft.) 0.478 Funnel Viscosity (Sec/qt. API) 60+ 1. Run stream of water @ flowline to control wt. & vis. 18 Plastic Viscosity cp Yield Point (lb/100 sq.ft.) 39 2. If more vis is required, mix gel in pit mud. 16/34 Gel Strength 10 sec/10 min. 11.5 3. If hole pulls tight, add Poly Plus down the pipe on connection. 10.0 Filtrate API (ml/30 min.) Cake Thickness 32nd 1 4. When mud wt. climbs above 9.7, mix and add the following: 0.0 Alkalinity, Mud (Pm) 80 bbls. Fresh water Alkalinity, Filtrate (Pf/Mf) 1.3/1.8 23 sx. Gel Chloride Content, ppm Tr 3 sx. Soda ash Calcium. ppm 1 sx. Caustic Soda Sand Content (% by Vol) Tr 5.9 1 sx. Lignite Solids Content (% by Vol.) 1/3 sx. Pac Oil Content (% by Vol.) 0.0 3 sx. c/s hulls Water Content (% by Vol.) 94.1 LCM, lbs/bbl Jet & gun a pit before adding to system. 750 Reynold's #DP Add over 1 1/2 hour period. Reynold's # DC 1,467 10.08 ECD lb/gal DRILLING MUD INVENTORY 5. Always Keep Hole Full! Used Cost Products: Prior Day Delivery On Hand 6. Always Circulate Hole Clean Before Trips. 111 111 Premium Gel 7. Always Keep Mud Skids Covered. 5 5 Lime 10 10 Soda Ash 13 13 THANK YOU 9 9 119 119 C/S Hulls 4 4 Drill Pak 2 2 Desco Displaced @ 2800-2822 2 2 Poly Plus Reserve pit chlorides: 92000 ppm. Florigel Reserve pit volume est: 700 bbls. Xcide Sapp Multi Seal Telephone Number Mud-Co / Service Mud Representative Home Address 785-259-2757 Gary Schmidtberger Hays, Ks Telephone Number Warehouse Location 785-621-4232 Cell: 785-259-2757 Hays, Ks

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Report

100 S. Main St., Suite #310, Wichita, Ks. 67202

Date: 04/25/16 3192 Depth: Daily Drilling Mud Report Rig No. Operator 1 Shields Drilling Company, Inc. Habit Petroleum, LLC. Spud Date Address 04/21/16 Rig Rig Report for Mr. Section Range Report for Mr Twp **15S** 17W 23 Irvin E. Haselhorst/Duane Stecklein George Begler State K. Leiker #1` El: 1959 GL est. Ellis Kansas Mud Volume (BBL) Circulation Data Operation Casing Hole Liner Size Stroke Opposite Drill Pipe Present Activity 700 300 14 195 Drilling 209 265 6 8 5/8 in. at Pump Make Est Hole/DS capacities Opposite Drill Collars Bit Size (in.) No Intermediate Total Circulating Vol 356 Bethlehem 1 1.1463 7 7/8 in at Pump Model Production / Liner Volume in Storage BBI/ Strk Strk / Min. Bottoms Up (Min.) Drill pipe sz Туре 80 bbls. Fresh mud 0.139 57 34 225 4 1/2 XH in. at Drilling mud type BBL./Min GAL/Min. System Total (Min) Critical GPM DC/DP Drill Collar size 375 546 Chemical 7.9 333 233 6 1/4 Daily Mud Cost Cumulative Mud Cost Sample from Flowline 5,000.45 **Mud Properties** 0.00 Flowline Temperature MUD PROPERTIES SPECIFICATIONS 7:20 AM LCM Mud Wt.(lbs/gal.) Viscosity Time Sample Taken 9.4 - 9.850-55 8-10cc 1-3 ppb. Depth (Ft.) 3,192 Weight (lb/gal.) Suggest: 0.478 Mud Gradient (psi/ft.) Funnel Viscosity (Sec/qt. API) 1. Run stream of water @ flowline to control wt. & vis after 19 Plastic Viscosity cp mud wt. reaches 9.4 or better! Yield Point (lb/100 sq.ft.) 31 2. If more vis is required, mix gel in pit mud. Gel Strength 10 sec/10 min. 15/28 11.0 3. If hole pulls tight, add Poly Plus down the pipe on connection. 8.8 Filtrate API (ml/30 min.) Cake Thickness 32nd 4. When mud wt. climbs above 9.7, mix and add the following: 0.0 Alkalinity, Mud (Pm) 80 bbls. Fresh water Alkalinity, Filtrate (Pf/Mf) 1.2/1.5 23 sx. Gel Chloride Content, ppm Tr 3 sx. Soda ash Calcium. ppm 1 sx. Caustic Soda Sand Content (% by Vol) Tr 1 sx. Lignite Solids Content (% by Vol.) 5.8 0.0 1/3 sx. Pac Oil Content (% by Vol.) 3 sx. c/s hulls Water Content (% by Vol.) 94.2 LCM, lbs/bbl Jet & gun a pit before adding to system. Reynold's #DP 935 Add over 1 1/2 hour period. 1,669 Reynold's # DC 9.91 ECD lb/gal 5. Always Keep Hole Full! DRILLING MUD INVENTORY Used Cost Products: Prior Day Delivery 6. Always Circulate Hole Clean Before Trips. 111 111 Premium Gel 7. Always Keep Mud Skids Covered. 5 5 Lime 10 10 Soda Ash 13 13 THANK YOU 9 9 Lignite 119 119 C/S Hulls 4 4 Drill Pak 2 2 2 Poly Plus Florigel Xcide Sapp Barite Multi Seal Home Address Telephone Number Mud-Co / Service Mud Representative 785-259-2757 Hays, Ks Gary Schmidtberger Telephone Number Warehouse Location 785-621-4232 Hays, Ks Cell: 785-259-2757

Report:

8 100 S. Main St., Suite #310, Wichita, Ks. 67202 Report: 04/26/16 3552 Date: Depth: Daily Drilling Mud Report Rig No. Contractor Operator 1 Shields Drilling Company, Inc. Habit Petroleum, LLC. Spud Date Address Rig 04/21/16 Rig Report for Mr. Section Twp Range Report for Mr **15S** 17W 23 Irvin E. Haselhorst/Duane Stecklein George Begler State County K. Leiker #1 El: 1959 GL est. Ellis Kansas Circulation Data Mud Volume (BBL) Operation Casing Liner Size Stroke Opposite Drill Pipe Pump Pressure Hole Present Activity 6 195 700 Drilling 209 295 300 14 8 5/8 in, at Pump Make Est Hole/DS capacities Opposite Drill Collars Bit Size (in.) No Intermediate Total Circulating Vol Bethlehem 595 1.1463 356 7 7/8 1 in. at Pump Model Volume in Storage BBV Strk Strk / Min. Bottoms Up (Min.) Drill pipe sz Production / Liner Туре 57 37 225 XH Volume 0.139 4 1/2 in. at BBL./Min GAL/Min. System Total (Min) Critical GPM DC/DP Drilling mud type Drill Collar size 371 546 7.9 333 75 Chemical 6 1/4 233 Cumulative Mud Cost Daily Mud Cost Sample from Flowline or Pit 5,000.45 0.00 **Mud Properties** Flowline Temperature MUD PROPERTIES SPECIFICATIONS 7:45 AM LCM Mud Wt.(lbs/gal.) Viscosity Time Sample Taken 9.4-9.8 50-55 8-10cc 1-3 ppb. Depth (Ft.) 3,552 Weight (lb/gal.) Suggest: Mud Gradient (psi/ft.) 0.504 Funnel Viscosity (Sec/qt. API) 1. Run stream of water @ flowline to control wt. & vis after 19 Plastic Viscosity cp mud wt. reaches 9.4 or better! Yield Point (lb/100 sq.ft.) 33 2. If more vis is required, mix gel in pit mud. Gel Strength 10 sec/10 min. 15/32 10.0 3. If hole pulls tight, add Poly Plus down the pipe on connection. Filtrate API (ml/30 min.) 11.2 Cake Thickness 32nd 4. When mud wt. climbs above 9.7, mix and add the following: 0.0 Alkalinity, Mud (Pm) 80 bbls. Fresh water Alkalinity, Filtrate (Pf/Mf) 1.2/1.5 23 sx. Gel Chloride Content, ppm 40 3 sx. Soda ash Calcium. ppm 1 sx. Caustic Soda Sand Content (% by Vol) Tr 1 sx. Lignite Solids Content (% by Vol.) 9.0 1/3 sx. Pac Oil Content (% by Vol.) 0.0 3 sx. c/s hulls Water Content (% by Vol.) 91.0 LCM, lbs/bbl Jet & gun a pit before adding to system. Reynold's #DP 929 Add over 1 1/2 hour period. Reynold's # DC 1,693 10.43 ECD lb/gal 5. Always Keep Hole Full! DRILLING MUD INVENTORY Used Cost Products: Prior Day Delivery On Hand 6. Always Circulate Hole Clean Before Trips. 111 111 Premium Gel 7. Always Keep Mud Skids Covered. 5 Lime 10 10 Soda Ash 13 13 Caustic Soda THANK YOU 9 9 119 119 C/S Hulls 4 4 Drill Pak 2 Desco 2 2 Poly Plus Florigel Xcide di Sapp Barite Multi Seal Home Address Telephone Number Mud-Co / Service Mud Representative

Hays, Ks

Hays, Ks

Warehouse Location

Gary Schmidtberger

Cell: 785-259-2757

785-259-2757

Telephone Number

785-621-4232

100 S. Main St., Suite #310, Wichita, Ks. 67202

Cell: 785-259-2757

04/27/16 3602 Depth: Daily Drilling Mud Report Date: Operator Contractor Ria No. 1 Habit Petroleum, LLC. Shields Drilling Company, Inc. Spud Date Address 04/21/16 Rig Rig Report for Mr. Report for Mr Section Range Twp **15S** Irvin E. Haselhorst/Duane Stecklein 23 17W George Begler State County K. Leiker #1` El: 1959 GL est. Kansas Ellis Casing Mud Volume (BBL) Circulation Data Operation Pump Pressure Hole Liner Size Stroke Opposite Drill Pipe Present Activity 209 299 300 6 14 195 700 Plugged 8 5/8 in. at Opposite Drill Collars Bit Size (in.) Total Circulating Vol. Est. Hole/DS capacities Pump Make No Intermediate 356 Bethlehem 1 599 1.1463 7 7/8 in, at BBI/ Strk Bottoms Up (Min.) Pump Model Drill pipe sz Production / Liner Volume in Storage Strk / Min. XH 70 bbls. Fresh mud 0.139 57 38 225 4 1/2 in, at Critical GPM DC/DF Drill Collar size Drilling mud type BBL /Min GAL/Min. System Total (Min) #DIV/0! #DIV/0! 76 6 1/4 233 Chemical 7.9 333 Daily Mud Cost Cumulative Mud Cost Sample from Flowline 0.00 5,000.45 **Mud Properties** Flowline Temperature MUD PROPERTIES SPECIFICATIONS 7:28 AM LCM Time Sample Taken Mud Wt.(lbs/gal.) Viscosity 9.4-9.8 50-55 8-10cc 1-3 ppb. Depth (Ft.) 3,602 RTD Weight (lb/gal.) 0.000 Mud Gradient (psi/ft.) FINAL REPORT Funnel Viscosity (Sec/qt. API) Plastic Viscosity cp No-DST'S Yield Point (lb/100 sq.ft.) Gel Strength 10 sec/10 min. Logs- OK Filtrate API (ml/30 min.) Loggers TD: 3601 Cake Thickness 32nd Alkalinity, Mud (Pm) D&A Alkalinity, Filtrate (Pf/Mf) Chloride Content, ppm Plugged Hole Calcium. ppm Sand Content (% by Vol) Solids Content (% by Vol.) THANK YOU Oil Content (% by Vol.) 100.0 Water Content (% by Vol.) 2 skids on location LCM, lbs/bbl Reynold's #DP #DIV/0! #1 skid #DIV/0! Reynold's # DC ECD lb/gal #DIV/0! The remainder of the materials #2 skid DRILLING MUD INVENTORY Prior Day Cost Delivery On Hand Used Products: 111 Premium Gel 5 Lime 10 10 13 13 Caustic Soda 9 9 Lignite 119 119 C/S Hulls 4 4 Drill Pak 2 2 Reserve pit chlorides: 92000 ppm. 2 Poly Plus Reserve pit volume est: 700 bbls. Florigel Xcide Sapp 15. . . Rarite Multi Seal Home Address Telephone Number Mud-Co / Service Mud Representative 785-259-2757 Hays, Ks Gary Schmidtberger Telephone Number Warehouse Location 785-621-4232 Hays, Ks

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Report:

2625

# **GLOBAL CEMENTING, L.L.C.**

REMIT TO	18048 170RD		SI	SERVICE POINT:					
	RUSSELL, KS 67665			- *	USSell	Λ5.			
DATE 4 -21	-16 SEC. 23 TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH			
LEASE & Lei	KeR WELL#.	LOCATION	oria is 75	PUTH	COUNTY	STATE			
OLD OR NEW	(CIRCLE ONE)		2 m /2	s 4 Fin	2				
CONTRACTOR	SHIELD'S DALG, R	ig#/	OWNER						
TYPE OF JOB CHOLE SIZE	ement SURFACE	012	CEMENT			1			
CASING SIZE		PTH 209	AMOUNT O	RDERED 150	SX CON	1.			
TUBING SIZE		EPTH	_	370 CC					
DRILL PIPE		PTH		2% Gel					
TOOL	Di	EPTH			000	h			
PRES. MAX		NIMUM	COMMON_		@	- 71			
MEAS. LINE		OE JOINT	POZMIX		@	4			
CEMENT LEFT I	N CSG. [5				. @				
PERFS		155/	7		- @				
DISPLACEMENT	EQUIPMENT	S. BBL	ASC		- @				
	EQUIPMENT	/			. @				
PUMP TRUCK	CEMENTER GLORA	7	_		_ @				
# P-2	HELPER H	7-			@				
BULK TRUCK	The copy of				@				
# B-A	DRIVER JASON M.				@				
BULK TRUCK					@				
#	DRIVER				@				
			HANDLING		@				
			MILEAGE						
	REMARKS:				TOTA	L			
SA- 05/	209								
Recieved o	CIRCULATION			SE	RVICE	× (%)			
CEMENT	44 150 SX COM.	3 4 2							
Displaced	ABBL HZ		— DEPTH OF J						
SHUT IN	@ 250 ±,			CK CHARGE					
1	T DID CIRCULATE			TAGE					
Cemen	SURFACE	THANK'S							
	DURFACE	- HANA	- MANIFOLD						
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OUL DOE TO	LARIT TOTRO	Leum LL	C		- @				
CHARGE TO:					TOTA	J			
			-		1011				
CITY	STATE ZI	P	-	PLUG & FLC	AT EQUIPME	INT			
Global Cement					@				
You are hereb	y requested to rent cemer	iting equipment a	nd						
furnish cement	ter and helper(s) to assist or	wner or contractor	to		@				
	listed. The above work was				- @				
	n of owner agent or contra				_ @				
listed on the re-	"GENERAL TERMS A	ND CONDITION	3						
usted on the re	verse side.				TOTA	L			
PRINTED NAME	GEOTGE BEG	ler -	SALES TAX	(If Any)		will are being a second			
	Hamas &			RGES					
SIGNATURE	Jourge Bonton		TOTAL CHA	LINUES					



TICKET

2335

1023 Reservation Road • Hays, Kansas 67601 • (785) 625-1182

Charge To:	Habit	Petr	oleun	, LL	<i>C</i> ,			Date 4/.2	theast e KS ange 17w eight
Address:									
Lease and Wel	I No. K.	Leike	r #)	-		Field D	egent	rart 50	theast
Nearest Town .	Hays				C	ounty _	Elle	State	e #5
Customer's Ord	der No. Do	ane	Stech	le?n	Sec	23	Twp	. 155 R	ange //w
Zero KB	5 +	466		(	Casing Size _	_		VVe	eight
Customer's T.D	360	72		Gemini	Wireline T.D.	3601	FI	uid Level 15	.11
Engineer	Gus				perator	Phoen	ia		
	Per	forations						Rental	
Code Reference	From	То	Number Of Holes	Amount	Code Reference	Uni	t	File Name	Amount
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Received the	above service	according to	the terms ar	nd conditions	specified below,	which we	nave read	and to mine.	, .g.c ,
Customer	Jun Ha	al lote	1						

All accounts are to be paid within the terms fixed by Gemini Wireline invoices and should these terms not be observed, interest at the rate of 1.5% per month will be charged

Because of the uncertain conditions existing in a well which are beyond the control of Gemini Wireline, it is understood by the customer that Gen ini Wireline, cannot

Should any of Gemini Wireline instruments be lost or damage in the performance of the operations requested the customer agrees to make every reasonable effort to

recover same, and to reimburse Gemini Wireline, for the value of the items which cannot be recovered, or the cost of repairing damage to items recovered. It is further understood and agreed that all depth measurements shall be supervised by the customer or its employees and customer hereby ceriffies that the zones,

guarantee the results of their services and will not be held responsible for personal or property damage in the performance of their services

from the date of such invoice. Interest, Attorney, Court, Filing and other fees will be added to accounts turned to collections.

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(2)

(3)

(4)

as shot were approved