

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West 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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

77M1119
FIELD SERVICE TICKET
1718 16359 A

DATE _____ TICKET NO. _____

DATE OF JOB 1/14/18		DISTRICT		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:		
CUSTOMER Redland Resources				LEASE Hall		23-5 WELL NO.				
ADDRESS				COUNTY Kiowa		STATE KS				
CITY				STATE		SERVICE CREW Scotty Dillon				
AUTHORIZED BY Dove Hochman				JOB TYPE: Top off Surface 242						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
86779	15					ARRIVED AT JOB	1/14/18	AM	PM	10:00
19867	.7					START OPERATION	1/14/18	AM	PM	11:00
						FINISH OPERATION	1/14/18	AM	PM	11:30
						RELEASED	1/14/18	AM	PM	12:00
						MILES FROM STATION TO WELL				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100C	Common Cement	SK	100		1660.00
CC109	Potassium chloride	lb	300		315.00
E100	Unit Mileage	Mi	45		202.50
E101	Heavy Equipment Mileage	Mi	90		675.00
E113	Propt. Salt Delivery	Ton	212		578.00
CE200	Depth 1500'	461	1		1600.00
CE240	Blending & Mixing Charge	SR	100		140.00
5003	Service Supervisor	EA	1		175.00
SUB TOTAL					4630.00

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL
4630.00
2549.94

SERVICE REPRESENTATIVE

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

TTM
(2)

FIELD SERVICE TICKET
1718 16326 A

1 of 2

DATE _____ TICKET NO. _____

DATE OF JOB 1-19-18 DISTRICT Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER Redland Resources		LEASE Hall		WELL NO. 23					
ADDRESS		COUNTY kiowa		STATE KS					
CITY		STATE		SERVICE CREW MATTAI MARCHUZ Whately					
AUTHORIZED BY		JOB TYPE: 2-42 4 1/2" Long String							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
20920	1						1-19-18		
						ARRIVED AT JOB		AM PM	12:15
19860	.5					START OPERATION		AM PM	9:20
						FINISH OPERATION		AM PM	10:15
						RELEASED		AM PM	11:00
						MILES FROM STATION TO WELL			4.5

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SIGNED: X David Johnson
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 POZ	SK	50		600.00
CP105	AA-2 CMF	SK	200		3,400.00
CP107	60/40 POZ	SK	50		600.00
CC 102	CELLULOSE	lb	50		185.00
CC 103	SALT	lb	965		482.50
CC 110	MAG CHM 10 CF	lb	564		1,522.80
CC 129	FLA 3-22	lb	151		1,132.50
CC 201	SILSOLITE	lb	1001		670.67
CC 203	CMF 901	lb	170		42.50
CC 105	C-40 P	lb	47		188.00
CF 1250	AUTOHILL FLUMI SHW	EA	1		330.00
CF 606	LATCH KICK PLUG + BALL	EA	1		370.00
CF 1650	FRIBSHEW	EA	6		510.00
CF 704	CLAYMAY	SAL	4		175.00

SUB TOTAL

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE Mike Mattai	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>X David Johnson</u>
---	--

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 ~~16327~~ A
Contract # 16326

2 of 2

DATE _____ TICKET NO. _____

DATE OF JOB 1-19-18		DISTRICT Pratt		NEW WELL <input type="checkbox"/>		OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/>		INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER Redland Resources				LEASE Hall				WELL NO. 73							
ADDRESS				COUNTY Kiowa				STATE KS							
CITY				STATE				SERVICE CREW							
AUTHORIZED BY				JOB TYPE: 4 1/2 Long String											
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME					
						ARRIVED AT JOB									
						START OPERATION									
						FINISH OPERATION									
						RELEASED									
						MILES FROM STATION TO WELL									

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: *X [Signature]*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E100	P.M. Mill	mi	45		202 50
E101	Heavy oil mill	mi	90		675 00
E113	Prop & bulk del	TM	614		1,535 63
CE 206	depth charge 5000-6000	Lhr	1		2,880 00
CE 240	Blend + mix	SK	300		420 00
CE 304	plug cont.	YSS	1		250 00
S003	Supervisor	ea	1		175 00

CHEMICAL / ACID DATA:			

SUB TOTAL		16,312	10
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
TOTAL		8,971	68

SERVICE REPRESENTATIVE Mike Mattai

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *X [Signature]*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer REDIANDS Resources	Lease No.	Date 1-19-18	
Lease HALL	Well # 23-5		
Field Order # 16326	Station Pratt	Casing 4 1/2	Depth 3500
Type Job Z-42	4 1/2 Long string	Formation 5308 ST	Legal Description 23-303-19W
		County KIOWA	State KS

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 8 3/4	Tubing Size 5 1/2	Shots/Ft		Acid 50 SLS 60/40	RATE 4% 50	PRESS 23 PPS J.A.	ISIP 5 Min
Depth 3500	Depth 295	From	To	Pre Pad 200 SLS AA2	Max 10% SALT		5 Min Fluid loss
Volume 2	Volume 8.4	From	To	Pad 3% SLS Block	Min 2 SPS 10% KIAM	5 PPS	10 Min
Max Press 1500	Max Press	From	To	Frac 50 SLS 60/40	Avg 5% 4% 5%		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3260	Packer Depth 3275	From	To	Flush 83.9 84	Gas Volume		Total Load

Customer Representative DAVID HILMAN	Station Manager WESTERMAN	Treater MATTAI
---	------------------------------	-------------------

Service Units 8335	84981	20920	19960	19860
Driver Names MATTAI	MARCUZ		WHEATLEY	

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
12:15					ON LOCATION / SARRY MEETING
5:30					Run 4 1/2 tubing casing
					CENTRALIZED ON 2, 4, 6, 8, 10, 13
8:40					Casing on bottom
8:51					Hook to casing/block circ w. fig.
9:20	125		3	5	Pump 3 bbl water
9:21	125		11	4	Min 50 SLS 60/40 PZR
9:25	200		5	5	Max 200 SLS AA2
9:41			4	3	WASH PUMP + LINE / DROP PLUG
9:42	100			6	START 2% KCL DISPLACEMENT
9:49	300		45	6	Like pressure
9:56	800		74	3	Slow rate
10:00	1500				Plug down / released + HELD
10:05			7/5		Plug RAT + move hole
					Circulation thru JOB
					JOB COMPLETE
					THANK YOU!
					Matt Mattai
					E. D. MANN + DILLON

GEOLOGICAL REPORT
HALL 23-5
SW/NE/SW/NW SECTION 23 – T30S – R19W
KIOWA COUNTY, KANSAS

SUMMARY

The above captioned well was drilled to a total depth of 5,300 feet on January 19, 2018. A one-man logging unit was on location from approximately 4,000 feet to TD. The well was under the geological supervision of the undersigned from 4,000 feet to TD. At TD, Weatherford electric logs were ran that consisted of Dual Induction, Compensated Neutron-Density and Micro-log. From the data collected while drilling and analyzing, potential hydrocarbon shows were encountered in the Mississippian Spergen Dolomite and Mississippian Warsaw Dolomite. The decision was made to run casing and attempt completion in the above mentioned zones.

MISSISSIPPIAN SEDIMENTS

The top of the Mississippian Unconformity was encountered at 5,123 (-2840) feet. A twenty foot “cap-rock” was cut that encountered scattered gas kicks. These samples were described as Limestone: off white to cream to buff to tan, predominantly micro-crystalline to dense, some sub chalky, slightly fossiliferous, trace pin point vugular porosity in part, mottled in part, some dolomitic in part, with sucrosic texture, friable, trace to fair inter-crystalline porosity, with abundant dull yellow mineral fluorescence, some yellow fluorescence, with slow stream cut, no odor, no visible stain.

The top of the Spergen Dolomite was cut at 5,143 (-2860) feet, with porosity extending to 5,168. Samples were described as Dolomite: white to off white to light tan, very fine to fine crystalline, sucrosic texture, trace to fair inter-crystalline porosity, trace pin-point vugular porosity, very limey grading to dolomitic limestone, slightly glauconitic, friable in part, trace opaque to milky spotted chert, abundant yellow fluorescence, with good stream cut, trace light brown live oil stain, good odor. Electric logs indicate the Spergen to have a neutron porosity as high as 25% that calculates productive along with good micro-log separation.

The top of the Warsaw Dolomite was cut at 5,171 (-2888) feet. Samples were described as Dolomite: off white to cream to tan to light brownish grey, very fine to fine crystalline, sucrosic texture, friable in part, trace to fair inter-crystalline porosity, trace pin point vugular porosity, trace fractured porosity, limey in part, glauconite, trace opaque to light brown chert, abundant bright yellow fluorescence, with excellent stream cut, trace to fair light brown live oil stain, with good odor. A 190-unit gas kick was recorded from the gas chromatograph. Electric logs indicate porosity as high as 19% and have good micro-log separation.

ELECTRIC LOG TOPS

	REDLAND HALL SW NW 23-T30S-R19W	MCCOY PET. HILL "A" 1-23 N/2, NE, SW 23-T30S-R19W	GRAHAM-MICHAELIS HAYSE #1-23 C NE NW 23-T30S- R19W
CHASE (Subsea)	2611 (-373)	2600 (-346)	2595 (-333)
TOP PENN (Subsea)	3472 (-1189)	3430 (-1176)	3432 (-1170)
BS. HEEBNER (Subsea)	4270 (-1987)	4246 (-1992)	4256 (-1994)
STARK SH. (Subsea)	4750 (-2467)	4722 (-2468)	4730 (-2468)
ALTAMONT (Subsea)	4941 (-2658)	4924 (-2670)	4932 (-2670)
CHEROKEE SH. (Subsea)	5025 (-2742)	4996 (-2742)	5004 (-2742)
MISS. UNCON. (Subsea)	5123 (-2840)	5064 (-2810)	5078 (-2816)
T/ WARSAW (Subsea)	5171 (-2888)	5122 (-2868)	5124 (-2862)

CONCLUSION

The Hall 23-5 was drilled as an in-fill development well for additional hydrocarbons in the Mississippian Spergen Dolomite. After all data was analyzed the decision was made to set production casing and attempt completion in the Spergen Dolomite.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Mike Pollok", with a large, sweeping flourish extending to the right.

Mike Pollok
Petroleum Geologist
1/22/2018