



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1158933
OIL & GAS CONSERVATION DIVISION

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 # _____

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 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: _____

Well Name: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1158933

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

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 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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 43003
LOCATION Eureka
FOREMAN Steven Mead

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT APX 15-073-24189

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-20-13	2523	Browning # 34	19	223	10E	Greenwood
CUSTOMER <u>Patterson Harry P. JR (Patterson)</u> <u>Parations</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>618 N. Westchester Dr.</u>			<u>485</u>	<u>Alann</u>		
CITY <u>Andover</u>			<u>479</u>	<u>Culby</u>		
STATE <u>Ks</u>						
ZIP CODE <u>67002</u>						

JOB TYPE Surface C HOLE SIZE 12 1/4 HOLE DEPTH 232' CASING SIZE & WEIGHT 8 5/8 23#
 CASING DEPTH 237' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 30'
 DISPLACEMENT 13 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting. Rig up to 8 5/8 casing. Break circulation w/ 5 bbls
Fresh water. Mix 120 sks Class A Cement w/ 3% Cacl2, 2% Gel + 1/2" Flo Cele.
Displace with 13 bbls Fresh water. Shut well in. Good Cement Returns to Surface.
6 bbls Top it. Job Complete Rig down.

Thank you

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	870.00	870.00
5406	25	MILEAGE	4.20	105.00
11045	120 sks	Class A Cement	15.70	1884.00
1102	340 #	Cacl2 3%	.78	265.20
111813	225	Gel 2%	.22	49.50
1107	30 #	Flo-Cele 1/2" per/sk	2.47	74.10
5407	5.64	Ton mileage Bulk Truck	368.00	368.00
			SubTotal	3615.80
			SALES TAX	165.91
			ESTIMATED TOTAL	3781.71

219805

AUTHORIZATION Dan Cy TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 42958

LOCATION EUREKA

FOREMAN Kevin Mc Coy

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT API # 15-073-24189

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-24-13	2523	BROWNING # 34	19	225	10E	Gw Ks
CUSTOMER <u>Patterson HARRY P.</u>			Summit Drly Co.			
MAILING ADDRESS <u>618 N. Westchester Dr.</u>						
CITY <u>Andover</u>	STATE <u>Ks</u>	ZIP CODE <u>67002</u>				
TRUCK # DRIVER TRUCK # DRIVER						
			<u>520</u>	<u>John S.</u>		
			<u>611</u>	<u>Joey K.</u>		
			<u>667</u>	<u>Ed S.</u>		

JOB TYPE Longstring 0 HOLE SIZE 7 7/8 HOLE DEPTH 2375 KB CASING SIZE & WEIGHT 5 1/2 15.50 *
 CASING DEPTH 2362.58 G.L. DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.2 - 13.6 SLURRY VOL 52 BBL WATER gal/sk 7.5 - 9.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 56.2 BBL DISPLACEMENT PSI 800 ~~MIN~~ PSI 1200 Bump Plug RATE 5 BPM

REMARKS: Safety Meeting: Rig up to 5 1/2 Csg. w/ Rotating Swivel. BREAK Circulation w/ 5 BBL Fresh water, Pump 10 BBL Metasilicate Pre Flush, 5 BBL water SPACER, Mixed 150 SKS 60/40 Pozmix Cement w/ 4% Gel @ 13.2 */gal. TAIL in w/ 50 SKS Thick Set Cement @ 13.6 */gal. wash out Pump & Lines. Shut down. Release Plug. Displace Plug to Seat w/ 56.2 BBL Fresh water. FINAL Pumping Pressure 800 PSI. Bump Plug to 1200 PSI. wait 2 mins. Release Pressure. Float Held. Good Circulation @ All times while Cementing. Job Complete. Rig down.

Note: Rotate Csg while Displacing Cement. Centralizers on *1, 3, 5, 9.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1085.00	1085.00
5406	25	MILEAGE	4.20	105.00
1131	150 SKS	60/40 Pozmix Cement } Lead Cement	13.18	1977.00
1118 B	500 *	Gel 4%	.22 *	110.00
1126 A	50 SKS	THICK Set Cement (TAIL Cement)	20.16	1008.00
1111 A	50 *	Metasilicate Pre Flush	2.10 *	105.00
5407	9.2 TONS	Ton Mileage Bulk Delv.	M/c	368.00
5611	1	Rental on Rotating 5 1/2 Swivel	100.00	100.00
4406	1	5 1/2 Top Rubber Plug	73.50	73.50
4159	1	5 1/2 AFU FLOAT SHOE	361.00	361.00
4130	4	5 1/2 x 7 7/8 Centralizers	50.50	202.00
			Sub Total	5494.50
			SALES TAX 7.3%	280.07
			ESTIMATED TOTAL	5774.57

Ravin 3737

K-Mc

THANK you
PA 059948

AUTHORIZATION witnessed By Harry Patterson TITLE Owner DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

GEOLOGICAL REPORT

Patterson Operations

Browning #34

N/2 SE NE Section 19-T22S-R10E

Greenwood County, Kansas

COMMENCED: 06-19-13

STATUS: Oil

COMPLETED: 06-23-13

A.P.I. #: 15-073-24120

CONTRACTOR: Summit Drilling Company

OPERATOR LIC.: 34479

SIZE OF HOLE: 7 7/8"

FIELD: Browning

SURFACE PIPE: 8 5/8"

ELEVATION: 1433 K.B.

CEMENTED WITH: N/A

LOGS: None

LONG STRING: 4 1/2"

MUD SYSTEM: Chemical

CEMENTED WITH: N/A

OTHER:

R.T.D.: 2375'

*with mutant
6-24-13*

William M. Stout
Geologist

G.L. 1423
R.B. 1433

SAMPLES ARE
LAGGED



BARTLESVILLE
2273 (-840)

2200

SS-L. BRN. F-G. MILA. SKAL.
FR. ODOR. SAT. STN. SFO. PP
W/FLUOR.

SS-AA

50

SS-L. BRN. F-G. MILA. SKAL.
FR. ODOR. SAT. STN. SFO. PP
W/FLUOR.

SS-AA

SS-L. BRN. F-G. MILA. SKAL.
FR. ODOR. SAT. STN. SFO. PP
W/FLUOR.

SS-AA. W/ST. BRN. GY. BRN.

SS-L. BRN. F-G. MILA. SKAL.
FR. ODOR. SAT. STN. SFO. PP
W/FLUOR.

2360

SS-AA

SS-L. BRN. F-G. MILA. SKAL.
FR. ODOR. SAT. STN. SFO. PP
W/FLUOR.

SS-AA

50

SS-AA

SS-AA. W/ST. BRN. GY. BRN.

SS-AA. W/ST. BRN. GY. BRN.

CFS

CFS. 30 MIN
2375
RTD 2375 (-

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 19, 2013

Harry Patterson
Patterson, Harry P. Jr. dba Patterson
Operations, Sole Proprietorship
618 N. Westchester Dr.
Andover, KS 67002

Re: ACO1
API 15-073-24189-00-00
Browning 34
NE/4 Sec.19-22S-10E
Greenwood County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Harry Patterson