



KANSAS CORPORATION COMMISSION 1060313
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1060313

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

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Well Report

SHULTZ 4M-2

API Number:

AFE Number: W884

Project Area: SYCAMORE
KS MONTGOMERY
31S - 14E - 2
771N - 309W

AFE Amount: \$0.00

Activity Date	Activity Description
4/26/2011	MIRU Thornton, drilled 11" hole 21.5' deep, RIH W/1 joint 8-5/8" surface casing. Mixed 4 sx type 1 cement, dumped down the backside. SDFN.
4/27/2011	TIH W/ 6 3/4" BIT, HAMMER AND DRILL PIPE, DRILLED OUT FROM SURFACE TO TD OF 1286'. TAKING SAMPLES FROM ZONES OF INTREST RD DRILL MOVE IN OSAGE WIRELING PULLED LOGGS FROM LOGGER DEPTH TO SURFACE JOB COMPLETE AWAITING DECISION ON RUNNING PIPE.
4/29/2011	MI PU, RIH w/ 30 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 35 BBLs FRESH WTR PUMP 10 SKS GEL FLUSH W/HULLS, 20 BBLs WATER SPACER, 15 BBLs CAUSTIC PRE-FLUSH, 10 BBLs DYE WTR. MIXED 135 SKS THKSET CMT W/8#KOL-SEAL,1/8# PHENOSEAL PER SK.,1/4% CFL-115, 1/4% @ 13.4#/GAL YIELD 1.75. WASHED OUT PUMP AND LINES SHUTDOWN, RELEASE PLUG, DISPLACE W/20.3 BBLs FRESH WTR. FINAL PUMPING PRESSURE 700 PSI, BUMP PLUG TO 1200 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD GOOD CEMENT RETURNS TO SURFACE, 44 BBLs SLURRY, 7 BBLs TO PIT. RD MOL. CSG STRING: 14.26' SUB 30 JOINTS 4-1/2" FROM SUNRISE LANDED CSG @ 1279.46' PBSD - 1279.46' TD 1286'
5/23/2011	MIRU Osage Wireline & Consolidated Oil Well Services. Osage RIH and ran CBL-CCL/VDL from 1276' to 0'. Bond looks good all depths. Osage RIH and perforated Cattleman from 1198' to 1204 with 2 spf, 180 degree, 25 gm. TOTAL 13 holes Consolidated spotted 100 gallons 15% HCL across Cattleman perfs. Spearheaded 200 gals additional (300 total) followed by 75 bbls PAD (25 ppt gelled city water with 2% KCL & biocide) and followed by 3,500 lbs 16/30 and 3,700 lbs 12/20 sand at 0.25 to 3 ppg concentrations. Flushed with 19 bbls water. Breakdown 1228 psig, ISIP 605 psig, 5 min 456 psig, 10 min 323 psig, 15 min 199 psig. ATP 890 psig, MTP 1074 psig, ATR 20 BPM, MTR 20 BPM. TOTALS: 300 gallons 15% HCL, 7,200 lbs 16/30 & 12/20 sand, 244 bbls gelled water Shut well in overnight to allow gel to break. Rig down Osage and Consolidated.

5/24/2011

TIH W/ TBG WASHED 50' OF SAND TO TD SET SN @ 1224 TIH W/ RODS & PMP SPACED
ROD STRING HUNG ON JACK

TBG STRING

2 3/8 TBG - 40

SUBS - 0

SN @ 1224

15' OEMA @ 1239

ROD STRING

3/4 RODS - 48

1-8',1-4' PONY

1 1/2 X 6' BHD W/ GA

1 1/8 X 11' POLISH ROD



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 30499

LOCATION Eureka KS

FOREMAN Rick Ledford

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

FIELD TICKET & TREATMENT REPORT
CEMENT *API # 15-125-32056-00-00*

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-29-11	4758	Shultz # 4M-2	2	31	14E	MG
CUSTOMER <u>Layne Energy</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 160</u>			520	John		
CITY <u>Syramore</u>			515	Cabin		
STATE <u>KS</u>		ZIP CODE				

JOB TYPE longstring 0 HOLE SIZE 6 3/4" HOLE DEPTH 1286' CASING SIZE & WEIGHT 4 1/2" 10.5#
 CASING DEPTH 1279' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13 1/4 # SLURRY VOL 44 Bbl WATER gal/sk 8.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 20.3 Bbl DISPLACEMENT PSI 700 MIX PSI 1200 RATE _____

REMARKS: Safety meeting - Rig up to 4 1/2" casing. Break circulation w/ 35 Bbl fresh water. Pump 10 sks gel-flush w/ hulls, 20 Bbl water spacer, 15 Bbl caustic soda pre-flush, 10 Bbl dye water. Mixed 135 sks thickset cement w/ 8" Kol-seal/sk, 1/2" phenaseal/sk + 1/4% CFL-115 @ 13 1/4 #/gal. Washout pump + lines, shut down, release latch down plug. Displace w/ 20.3 Bbl fresh water. Final pump pressure 700 PSI. Bump plug to 1200 PSI. release pressure, float + plug held. Good cement returns to surface = 7 Bbl slurry to pit. Job complete. Rig down.

Thank You

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	975.00	975.00
5406	40	MILEAGE	4.00	160.00
1126A	135 sks	thickset cement	18.30	2470.50
1110A	1080 #	8" Kol-seal/sk	.44	475.20
1107A	17 #	1/2" phenaseal/sk	1.22	20.74
1135A	34 #	1/4% CFL-115	9.95	338.30
1118B	500 #	gel-flush	.20	100.00
1105	50 #	hulls	.42	21.00
1103	100 #	caustic soda	1.52	152.00
5407A	7.43	tan mileage bulk tax	1.26	374.47
4453	1	4 1/2" latch down plug	155.00	155.00
4156	1	4 1/2" flapper type float shoe	175.00	175.00
		Subtotal		5417.21
		SALES TAX		246.19
		ESTIMATED TOTAL		5663.40

AUTHORIZATION *[Signature]* TITLE *[Signature]* 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.

Air Drilling Specialist
Oil & Gas Wells

THORNTON AIR ROTARY, LLC
Office Phone: 620-879-2073

PO Box 449
Caney, KS 67333

Date Started	4/26/2011
Date Completed	4/27/2011

Well No.	Operator	Lease	A.P.I #	County	State
4M-2	Layne Energy Operating	Shultz	15-125-32056-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			2	31	14 E

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Sean	Oil	4	21' 8 5/8	1286	6 3/4

Formation Record

0-2	DIRT	1071-1087	SHALE		
2-12	CLAY	1087-1089	LIME		
12-74	LIME	1089-1091	SHALE		
74-300	SHALE	1091-1092	COAL		
300-406	SAND	1092-1099	SANDY SHALE		
406-412	SHALE	1099-1133	SHALE		
412-538	LIME	1133-1135	COAL		
538-550	SHALE	1135-1148	SHALE		
550-564	LIME	1148-1149	COAL		
564-594	SAND	1149-1184	SHALE		
594-656	LIME	1184-1189	SANDY SHALE		
656-725	SHALE	1189-1206	SAND / LITE ODOR		
725-732	LIME	1206-1209	SANDY SHALE		
732-755	SANDY SHALE	1209-1211	COAL		
755-782	LIME	1211-1226	SHALE		
782-804	SAND	1226-1232	SAND		
804-887	SANDY SHALE	1232-1286	SHALE		
887-888	COAL	1286	TD		
888-916	LIME				
916-921	BLACK SHALE				
921-975	SHALE				
975-1000	LIME				
1000-1010	BLACK SHALE				
1010-1018	LIME				
1018-1021	BLACK SHALE				
1021-1022	COAL				
1022-1026	LIME				
1026-1034	SAND				
1034-1070	SHALE				
1070-1071	COAL				

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 27, 2011

Victor H Dyal
Layne Energy Operating, LLC
P O Box 160
Sycamore, KS 67363

Re: ACO1
API 15-125-32056-00-00
Shultz 4M-2
NW/4 Sec.02-31S-14E
Montgomery 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,
Victor H Dyal