



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
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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

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: _____



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 Bbls.	Gas Mcf	Water Bbls.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Air Drilling Specialist
Oil & Gas Wells

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

PO Box 449
Caney, KS 67333

Date Started	2/14/2011
Date Completed	2/16/2011

Well No.	Operator	Lease	A.P.I #	County	State
2-36	Layne Energy Operating	Dickey	15-125-32034-00-00	Montgomery	Kansas

1/4	1/4	1/4	Sec.	Twp.	Rge.
			36	32	13

Driller	Type/Well	Cement Used	Casing Used	Depth	Size of Hole
Sean/Billy	Gas	4	21.5' 8 5/8	1496	6 3/4

Formation Record

0-2	DIRT	984-990	BLACK SHALE	1348-1350	LIME
2-10	CLAY	987	GAS TEST-2#,1/4",MCF-12.7	1350-1382	SHALE
10-106	SHALE	990-991	COAL (LEXINGTON)	1363	GAS TEST - SAME
106-120	LIME	991-995	SHALE	1382-1386	RED SHALE
120-136	LMY SHALE	995-1007	SAND	1386-1434	SHALE
136-202	SHALE	1007-1053	SANDY SHALE	1434-1435	COAL
202-250	SAND (WET)	1053-1079	LIME (OSWEGO)	1435-1475	SHALE
236	WENT TO WATER	1079-1089	BLK SHALE (SUMMIT)	1438	GAS TEST - SAME
250-300	SANDY SHALE	1089-1108	LIME	1475-1483	SDY LIME/PICKED UP SOME GAS
300-440	SHALE	1108-1115	BLK SHALE (EXCELLO)	1483-1492	MISS. CHATT (MISS.)
440-517	SANDY SHALE	1115-1116	COAL (MULKEY)	1488	GAS TEST-15#,1/2",MCF-147
517-568	LIME	1116-1126	LIME	1492-1496	BROWN CHERY LIME/LOTS OF GAS
568-576	SHALE	1126-1135	SHALE	1496	GAS TEST-3#,2" CHOKE
576-630	SAND	1135-1136	COAL	1496	TD
630-747	SHALE	1136-1153	SHALE		
747-750	LMY SHALE	1153-1155	LIME		
750-760	SHALE	1155-1157	SHALE		
760-765	LIME	1157-1158	COAL (CROWBERG)		
765-801	SAND	1158-1170	SAND		
801-820	SHALE	1170-1200	SANDY SHALE		
820-851	LIME	1200-1202	COAL		
851-857	SHALE	1202-1252	SHALE		
857-877	SAND	1252-1258	SANDY SHALE		
877-882	SANDY SHALE	1258-1259	COAL		
882-909	SAND/ 889-LITE ODOR	1259-1270	SHALE		
909-960	SANDY SHALE	1263	GAS TEST - SAME		
912	GAS TEST-5#,1/4",MCF-20.7	1270-1280	RED SHALE		
960-961	COAL (MULBERRY)	1280-1293	SHALE		
961-964	SHALE	1293-1301	SAND		
964-984	LIME (PAWNEE)	1301-1348	SHALE		

Well Report

DICKEY 2-36

API Number:

AFE Number: G01061800100

Project Area:

LONE ELM
KS MONTGOMERY
32S - 13E - 36
507FNL - 1820FEL

AFE Amount: \$0.00

Activity Date	Activity Description
2/14/2011	MIRU THORNTON DRILLING, DRILLED 11" HOLE, 22' DEEP, RIH W/1 JT 8 5/8" SURFACE CASING, MIXED 4 SX TYPE 1 CEMENT, DUMPED DOWN THE BACKSIDE. SDFN.
2/15/2011	TIH W/6-3/4" HAMMER BIT AND DRILL PIPE, DRILLED OUT FROM UNDER SURFACE TO 1212', PULLED BACK TO 900' SHUT DOWN FOR NIGHT.
2/16/2011	MI PU, RIH w/ 39 JOINTS 4-1/2" CASING, RIG UP CONSOLIDATED, BREAK CIRCULATION WITH 30 BBLS FRESH WTR WAS DOWN 40' TO PBT D PUMP 10 SKS GEL FLUSH W/HULLS, 5 BBLS WATER SPACER, 20 BBLS CAUSTIC PRE-FLUSH, 14 BBL DYE WATER MIXED 155 SKS THKSET CMT W/8#KOL-SEAL,1/8# PHENOSEAL PER SK.,1/4% CFL-115, @ 13.4#/GAL YIELD 1.75. WASHED OUT PUMP AND LINES SHUTDOWN, RELEASE PLUG, DISPLACE W/23.5 BBLS FRESH WTR. FINAL PUMPING PRESSURE 1000 PSI, BUMP PLUG TO 1500 PSI. WAIT 2 MINUTES, RELEASE PRESSURE, FLOAT HELD GOOD CEMENT RETURNS TO SURFACE, 48 BBLS SLURRY, 8 BBLS TO PIT. RD MOL. 1-8' SUB 1-20' SUB 39 JTS 4-1/2 WESTERN DRILL PBT D 1475.25 TD1496
2/16/2011	TIH FROM 900' RESUME DRILLING CHECKING ZONES OF INTREST, TOOK A LARGE GAS KICK AT TD OF 1496'. UNABLE TO DRILL ANY MORE, RIG UP CONSOLIDATED TO KILL WELL. RD DRILL RIG MOVE IN OSAGE WIRELINE, PULLED LOGS FROM LOGGER DEPTH TO SURFACE RIG DOWN OSAGE. RIG UP 80 VAC WATER TRUCK TO WELL DUMPED 21 SACKS OF SAND DOWN WELL TO TOPSET MISSISSIPPI BREAK DOWN READY FOR LONGSTRING.
3/18/2011	MOL & RU Osage Wireline. Run GR-Ccl-Vcl Cement Bond log from 1460' to Surface. Bond looks good all depths. RDMOL Osage Wireline. Well SI waiting for completion.
3/21/2011	TIH W/ DRILL BIT TAGED TD HUNG ON HEAD SHUT IN

3/23/2011

TAGGED RUBBER PLUG AT 1470 DRILLED 2' TO CEMENT DRILLED 1' OF CEMENT.
DRILLED 1' OF ALUMINUM AND 1' OF BOTTOM OF FLOAT SHOE. WASHED SAND TO
1492', TRIPPED DRILL BIT OUT PUT ON SN RAN 44 JTS 2-3/8 TUBING WITH A SN ON
BOTTOM AND A 2' SUB ON TOP. HUNG STRING AT 1471.80, PULLED 2 SWABS ON WELL.
WELL UNLOADED HOLE, SHUT IN JOB COMPLETE RIG DOWN WELL READY TO FLOW
GAS.

2-3/8 TUBING - 44 JTS
1-2' SUB ON TOP
SN @ 1471.80



CONSOLIDATED
Oil Well Services, LLC



ENTERED

TICKET NUMBER 30224

LOCATION Eureka KS

FOREMAN Rick Ledford

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE <u>2-16-11</u>	CUSTOMER # <u>4758</u>	WELL NAME & NUMBER <u>Dickey 2-36</u>	SECTION	TOWNSHIP	RANGE	COUNTY <u>MG</u>	
CUSTOMER <u>Layne Energy</u>		Safety marking SF DG		TRUCK # <u>520</u>	DRIVER <u>Shannon</u>	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 1100</u>				<u>543</u>	<u>Dave</u>		
CITY <u>Sycamore</u>	STATE <u>KS</u>			ZIP CODE			
JOB TYPE <u>longstring 0</u>				HOLE SIZE <u>6 3/4"</u>	HOLE DEPTH <u>1496'</u>	CASING SIZE & WEIGHT <u>4 1/2"</u>	
CASING DEPTH <u>1425'</u>		DRILL PIPE	TUBING	OTHER			
SLURRY WEIGHT <u>13.4*</u>		SLURRY VOL <u>48 Bbl</u>	WATER gal/sk <u>8.0</u>	CEMENT LEFT in CASING <u>0'</u>			
DISPLACEMENT <u>23.5</u>		DISPLACEMENT PSI <u>1000</u>	PSI <u>1500 Bump plug</u>	RATE			

REMARKS: Safety marking Rig up to 4 1/2" casing. Break circulation w/ 30 Bbl fresh water. Wash down 40' to PSTD. Pump 10 sks gel-flush, 5 Bbl water spacer, 20 Bbl caustic soda pre-flush, 14 Bbl dye water. Mixed 155 sks thickset cement w/ 8" Kol-sol/sk. 1/8" phenoxol/sk + 1/4% CFE-115 @ 13.4*/gal. Washout pump + lines, shut down, release plug. Displace w/ 23.5 Bbl fresh water. Final pump pressure 1000 PSI. Bump plug to 1500 PSI wait 2 minutes, release pressure, flat head. Good cement returns to surface = 8 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	0	MILEAGE on location	n/c	n/c
1126A	155 sks	thickset cement	18.30	2836.50
1110A	1240*	8" Kol-sol/sk	.44	545.60
1107A	20*	1/8" phenoxol/sk	1.22	24.40
1135A	40*	1/4% CFE-115	9.95	398.00
1118B	500*	gel-flush	.20	100.00
1103	100*	caustic soda	1.52	152.00
5407A	8.53	tax mileage bulk trk	1.26	429.91
4404	1	4 1/2" top rubber plug	42.00	42.00
			Subtotal	5503.41
			6.3% SALES TAX	258.21
			ESTIMATED TOTAL	5761.62

Ravin 3737

AUTHORIZATION

Sandy Muller

TITLE

Drilling Foreman

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.

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

June 02, 2011

Victor H. Dyal
Layne Energy Operating, LLC
1900 SHAWNEE MISSION PKWY
MISSION WOODS, KS 66205-2001

Re: ACO1
API 15-125-32034-00-00
Dickey 2-36
NE/4 Sec.36-32S-13E
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