

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 33712
Name: Clark Energy LLC
Address: 1198 Road 31
City/State/Zip: Havana, KS 67347
Purchaser: Quest Energy Services
Operator Contact Person: Randy Clark
Phone: (620) 330-2110
Contractor: Name: Thorton Drilling
License: 5831
Wellsite Geologist: Julie Schafer
Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)
If Workover/Re-entry: Old Well Info as follows:
Operator: N/A
Well Name: N/A
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____
11-6-07 11-7-07 12-18-07
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 019-26838-00-00
County: Chautauqua
NW - NW - NE - NE Sec. 12 Twp. 33 S. R. 12 East West
4950 feet from S / N (circle one) Line of Section
1250 feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Brougham Well #: 12-2
Field Name: Cherokee Basin Coal Area
Producing Formation: Crowburg
Elevation: Ground: 930 Kelly Bushing: N/A
Total Depth: 1687 Plug Back Total Depth: N/A
Amount of Surface Pipe Set and Cemented at 42 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1687
feet depth to Surface w/ 170 sx cnt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content N/A ppm Fluid volume N/A bbls
Dewatering method used Air dry
Location of fluid disposal if hauled offsite:
Operator Name: N/A
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

AI+Z-Dlg-1/29/09

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Randy W. Clark
Title: Mgr Date: 3-4-08
Subscribed and sworn to before me this 4th day of March,
20 08.
Notary Public: Jennifer Monday, CSK
Date Commission Expires: 2/24/09

NOTARY PUBLIC - State of Kansas
JENNIFER MONDAY
My Appt. Expires 2/24/09

KCC Office Use ONLY

Letter of Confidentiality Received
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 05 2008
CONSERVATION DIVISION
WICHITA, KS

Operator Name: Clark Energy LLC Lease Name: Brougham Well #: 12-2
 Sec. 12 Twp. 33 S. R. 12 East West County: Chautauqua

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Density neutron, Dual induction, Temp.	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Lenapah Limestone</td> <td>944</td> <td>-14</td> </tr> <tr> <td>Altamont Limestone</td> <td>1001</td> <td>-71</td> </tr> <tr> <td>Oswego Limestone</td> <td>1222</td> <td>-292</td> </tr> <tr> <td>Mississippi</td> <td>1627</td> <td>-697</td> </tr> </table>	Name	Top	Datum	Lenapah Limestone	944	-14	Altamont Limestone	1001	-71	Oswego Limestone	1222	-292	Mississippi	1627	-697
Name	Top	Datum														
Lenapah Limestone	944	-14														
Altamont Limestone	1001	-71														
Oswego Limestone	1222	-292														
Mississippi	1627	-697														

CASING RECORD <input checked="" 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
Casing	6.75	4.5	10.5	1624	Thick Set	170	Phenoseal and
							Gilsonite

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				

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
2	1324-1326	200 gal acid, 4000lbs 30-70 sand, 300bbl water	1324-1326

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	1320	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method		
12-		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
	0	1	25	

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	_____

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0-581' Samples not examined

- 581-611' Layton Sandstone, light gray, very fine grained, well sorted, silty, tightly packed, good cementation, <12% porosity, no petroliferous odor/show, no fluorescence, no gas bubbles observed under microscope at time drilled
- 611-625' Sandy-shale, medium gray
- 625-685' Layton Sandstone, light gray, fine grained, well sorted, tightly packed quartz, 14+% porosity, silty, no petroliferous odor/show, no fluorescence, no gas bubbles observed under microscope at time drilled
- 685-710' Layton Sandstone, light gray, fine grained, well sorted, 18% porosity, no petroliferous odor/show, no fluorescence, no gas bubbles observed under microscope at time drilled
- 710-755' Sandstone, medium-light gray, 14-18% porosity, no petroliferous odor/show, laminated with medium-dark gray shale

***Note: Picked up significant water in the Layton Ss.; due to the large volumes of gas and water, gas checks could not be performed.**

755-788' Shale, medium-dark gray

Top of the Drum Limestone @ 788' (+142')

- 788-807' Limestone, medium brownish-gray, fine grained, smooth texture, fossiliferous
- 807-822' Shale, dark gray
- 822-827' Hushpuckney Shale, black, no gas bubbles observed under microscope at time drilled

Canister #13 @ 12:15 p.m. – Hushpuckney Shale, 822-827'

- 827-832' Limestone, dark brownish-black, hard, fine grained, smooth texture, fossiliferous
- 832-896' Shale, medium gray
- 896-898¼' South Mound Shale, black, no as bubbles observed under microscope at time drilled

Canister #41 @ 1:00 p.m. – South Mound Shale, 896-898¼'

- 898¼-939' Shale, medium-dark gray, lime streaks
- 939-940' Holdenville Shale, grayish-black
- 940-944' Shale, light gray

Top of the Lenap Limestone @ 944' (-14')

- 944-960' Limestone, tan/off-white, fine grained, rough texture, fossiliferous

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960-1001' Sandstone, medium greenish-gray, silty in places

Top of the Altamont Limestone @ 1001' (-71')

1001-1035' Limestone, light-brownish-gray, fine grained, smooth texture, shale break from 1015-1017½'

1035-1039' Shale, medium gray

1039-1053' Weiser Sandstone, light gray, fine grained, well sorted, 14-16% porosity, no petroliferous odor/show, no fluorescence

1053-1066' Silty-shale, medium gray

1066-1134' Shale, medium gray

Top of the Pawnee Limestone @ 1134' (-204')

1134-1159' Limestone, light brownish-gray, pinkish tint, fine grained, smooth texture

1159-1163½' Shale, dark gray/grayish-black

1163½-1164½' Lexington Shale, grayish-black/black, carbonaceous

1164½-1222' Shale, medium gray

Gas check @ 1211' - 21# on 1½" choke = 2,010 mcf/day

11/6/07

Top of the Oswego Limestone @ 1222' (-292')

1222-1250' Limestone, light grayish-tan/off-white, fine grained, rough texture

1250-1253' Shale, dark gray

1253-1255½' Summit Shale, black, carbonaceous

Canister #9 @ 8:40 a.m. - Summit Shale, 1253-1255½'

1255½-1258' Shale, medium grayish-green

1258-1277' Limestone, tan, fine grained, rough texture

1277-1278' Shale, dark gray

1278-1282' Mulky Shale, black, carbonaceous

Canister #45 @ 8:55 a.m. - Mulky Shale, 1278-1282'

1282-1284' Shale, medium-light gray

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- 1284-1295' Limestone, tan, fine grained, rough texture
1295-1304' Shale, medium-dark gray
1304-1305½' Shale, dark grayish-black
1305½-1306' Bevier Coal
1306-1322' Shale, medium gray

11/7/07

Top of the Verdigris Limestone @ 1322' (-391')

- 1322-1324' Limestone, dark brownish-gray, hard, fine grained, locally medium crystalline, rough texture
1324-1324½' Shale, dark gray
1324½-1326' Croweburg Shale, black
1326-1326¾' Croweburg Coal

Canister #20 @ 1:35 p.m. – Croweburg Shale & Coal, 1324½-1326¾'

- 1326¾-1328' Shale, medium-light gray
1328-1335' Upper Cattleman Sandstone, light gray, pale brown oil staining, strong petroliferous odor, no oil show, 50% solid, bright greenish-yellow oil fluorescence
1335-1367' Shale, medium gray, silty
1367-1367¾' Fleming Coal, thin, alternating bands of dull and bright lithotype, micro-flakes of coal, thin and thick bright banding with thin disseminated gold pyrite layers, bright, satiny luster, 75% flat cleat faces
1367¾-1378' Shale, dark gray
1378-1390' Cattleman Sandstone, very light gray, silty, poor porosity, no petroliferous odor/show, shaley laminations
1390-1408¾' Shale, medium-light gray
1408¾-1410' Tebo Shale, black, slightly carbonaceous
1410-1411½' Shale, grayish-black
1411½-1411¾' Tebo Coal, thin and thick bright banding with thin disseminated gold pyrite layers, bright, satiny luster, 75% flat cleat faces
1411¾-1412' Shale, light gray
1412-1439' Shale, medium gray, silty

- 1439-1440' Shale, dark gray
- 1440-1460' Shale, greenish-gray, soft
- 1460-1530' Shale, medium gray, lime streaks
- 1530-1548' Shale, brick red, "Red Beds"
- 1548-1596' Shale, medium-dark gray
- 1596-1596½' Upper Riverton Coal, thin vitrain bands with gold disseminated pyrite bunches on fresh faces, bright vitreous luster, 30% flat cleat faces
- 1596½-1608½' Shale, dark gray
- 1608½-1609' Riverton Coal, thin, cuttings not observed during drilling
- 1609-1627' Shale, dark gray

Top of the Mississippi @ 1627' (-697')

- 1627-1658' Limestone, olive gray, fine grained, locally medium crystalline, smooth texture, scattered pyrite flecs, no visible porosity, no petroliferous odor/show, no oil fluorescence
- 1658-1690' Limestone (90%), light olive gray, fine grained, 10% granular/sucrosic with solid brown oil staining, silty, sandy appearance, <5% porosity; Chert (10%), very light gray/light bluish-gray, flinty/massive, dense, no visible porosity, no petroliferous odor/show, 10% solid bright greenish-yellow oil fluorescence

T.D. @ 1690'

Julie Shaffer
Petroleum Geologist

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