

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
Purchaser: Quest Energy Services
Operator Contact Person: Randy Clark
Phone: (620) 330-2110
Contractor: Name: Thornton Drilling M.O.K.A.T
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. _____

11-28-07	11-29-07	12-29-07
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 019-26839-00-00
County: Chautauqua
SW SE SE NE Sec. 13 Twp. 33 S. R. 12 East West
2885 feet from (S) / N (circle one) Line of Section
405 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 #: 13-7
Field Name: Fraiser

Producing Formation: South Mound
Elevation: Ground: 970 Kelly Bushing: N/A
Total Depth: 1763 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 N/A Feet
If Alternate II completion, cement circulated from 1763
feet depth to Surface w/ 180 ^{sx cmt.}

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content Air drill ppm Fluid volume N/A bbls
Dewatering method used Air dry

Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

Handwritten: Alt 2 - Dig - 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, CSR
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
 If Denied, Yes No Date: _____
 Wireline Log Received
 Geologist Report
 UIC Distribution

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WICHITA, KS

Operator Name: Clark Energy LLC Lease Name: Brougham Well #: 13-7
 Sec. 13 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 Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy)
 List All E. Logs Run:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Lenapah Limestone	1017	-47
Altamont Limestone	1072	-102
Oswego Limestone	1302	-322
Mississippi	1716	-746

Density-Neutron, Dual Induction, Temp

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	1758	Thick Set	180	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 (Amount and Kind of Material Used)	Depth
2	979-981	200 gal. acid, 5500lbs sand, 400 bbl water	979-981

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	1050	N/A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.	Producing Method			
1-5-07	<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	0	15	

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

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CONSOLIDATED OIL WELL SERVICES, INC.
 P.O. BOX 884, CHANUTE, KS 66720
 620-431-8210 OR 800-467-8676

TICKET NUMBER 11387
 LOCATION B-volk
 FOREMAN Loop

TREATMENT REPORT & FIELD TICKET
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
<u>4-30-07</u>	<u>2781</u>	<u>Brougham #13-7</u>				<u>CO</u>
CUSTOMER <u>Randy Clark</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			<u>418</u>	<u>James N</u>		
CITY			<u>460</u>	<u>Waltne</u>		
STATE			<u>403764</u>	<u>James K</u>		
ZIP CODE			<u>Memph, T.P.</u>			

JOB TYPE L.S HOLE SIZE 6 3/4 HOLE DEPTH 1260 CASING SIZE & WEIGHT 4 1/2
 CASING DEPTH 1752 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING -0-
 DISPLACEMENT 28 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: pumped 2hrs gel ahead Est. circulation, pumped 100lbs cement, flushed pump & lines
displaced plug to bottom set, chg, shut in
-Circulated cement to surface-

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>5401</u>	<u>1</u>	<u>PUMP CHARGE</u>		<u>840.00</u>
<u>5406</u>	<u>45</u>	<u>MILEAGE</u>		<u>142.50</u>
<u>5402</u>	<u>1752</u>	<u>Footage</u>		<u>316.26</u>
<u>5407</u>	<u>1</u>	<u>Bulk Truck</u>		<u>285.00</u>
<u>55016</u>	<u>4hr x 2</u>	<u>Transport</u>		<u>800.00</u>
<u>1126 A</u>	<u>180 lbs</u>	<u>Bulk cement</u>		<u>2722.00</u>
<u>1107A</u>	<u>120 #</u>	<u>Phosph Seal</u>		<u>126.00</u>
<u>1110</u>	<u>900 #</u>	<u>Wilsonite</u>		<u>432.00</u>
<u>1118B</u>	<u>100 #</u>	<u>Gel</u>		<u>15.00</u>
<u>1123</u>	<u>2500, 1</u>	<u>Coaly Water</u>		<u>96.00</u>
<u>4404</u>	<u>1</u>	<u>4 1/2 Rubber Plug</u>		<u>40.00</u>

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SALES TAX 219.32
 ESTIMATED TOTAL 6090.08

218838

AUTHORIZATION _____ TITLE _____ DATE _____

0-486' Samples not examined

***Note: Making significant water @ 486'**

486-490' Shale, medium gray

490-492' Shale, dark gray

492-494' Shale, grayish-black/black

Canister #8 @ 9:25 a.m. – Grayish-black/black shale, 492-494', canister dumped after 5 hours, no gas desorbed

494-510' Shale, medium gray

510-550' Upper Layton Sandstone, light gray, 14-16% porosity, laminated with shale, no petroliferous odor/show

550-560' Shale, medium-light gray, silty

560-656' Shale, medium gray, lime streaks

656-657½' Shale, black

Canister #9 @ 10:45 a.m. – Black shale, 656-657½'

657½-660' Shale, medium gray

660-666½' Limestone, light brownish-gray/tan, hard, medium-fine grained, rough texture

666½-667½' Shale, black

667½-698½' Shale, medium gray, silty

698½-743' Layton Sandstone, light gray, very fine grained, well sorted, silty, 16-18+% porosity, shaley laminations, no petroliferous odor/show, no gas bubbles observed under microscope at time drilled

Hand gas check @ 736' – no flow

743-762' Layton Sandstone, light gray with yellowish-gray tint, 18-20+% porosity, medium gray, sub-angular, laminated with carbonaceous and micaceous partings, no oil staining, no petroliferous odor/show, no fluorescence, no gas bubbles observed under microscope @ time drilled

***Note: Picked up additional water @ 755'; had to startup booster (water surging), due to the large volumes of gas and water, gas checks could not be performed from this point forward.**

Hand gas check @ 761' – no flow

- 762-766' Sandy-shale, medium gray
- 766-807' Layton Sandstone, light gray, fine grained, well sorted, tightly packed quartz, 16-20% porosity, silty, shaley laminations, no petroliferous odor/show, no gas bubbles observed under microscope at time drilled
- 807-820' Shale, medium-light gray, sandy, lime streaks
- 820-844' Shale, medium gray

Top of the Drum Limestone @ 844' (+126')

- 844-865' Limestone, off-white/light brownish-gray, fine grained, locally medium crystalline, rough texture, grainy, fossiliferous
- 865-872' Shale, dark gray
- 872-878' Shale, grayish-black
- 878-881½' Hushpuckney Shale, black, no gas bubbles observed under microscope at time drilled

Canister #41 @ 2:00 p.m. – Hushpuckney Shale, 878-881½'

- 881½-883' Limestone, off-white, hard, medium-fine grained, rough texture
- 883-929' Sandstone, light gray, 16-18% porosity, no petroliferous odor/show
- 929-939' Limestone, off-white, medium-fine grained, rough texture
- 939-979½' Shale, medium-dark gray
- 979½-982½' South Mound Shale, black, strong petroliferous odor, no gas bubbles observed under microscope at time drilled

Canister #28 @ 3:05 p.m. – South Mound Shale, 979½-982½'

- 982½-1014' Shale, dark gray
- 1014-1015' Holdenville Shale, grayish-black
- 1015-1017' Shale, medium-light gray, soft

Top of the Lenapah Limestone @ 1017' (-47')

- 1017-1026' Limestone, tan/off-white, fine grained, rough texture, gritty, fossiliferous
- 1026-1035' Shale, greenish-gray, silty/sandy
- 1035-1037' Limestone, light brownish-gray, fine grained, rough texture
- 1037-1072' Shale, medium gray, greenish tint

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Top of the Altamont Limestone @ 1072' (-102')

- 1072-1104' Limestone, light-brownish-gray, fine grained, locally medium crystalline, rough texture
- 1104-1124' Weiser Sandstone, light gray, 10-12% porosity, no petroliferous odor/show until 1112' then, 12% porosity, very silty, fine grained, well cemented, slight petroliferous odor, no show of oil on pit, 80% lightly mottled light green fluorescence, shale laminations
- 1124-1149' Weiser Sandstone (90%), light gray, uniform pale brown oil staining, 16-18% porosity, strong petroliferous odor, oil film/sheen on pit, oil blebs on cuttings (next day had good show of oil on pit from morning blowoff); Sandstone (10%), light gray, well cemented, laminated with carbonaceous and micaceous partings, 90% solid medium-bright green oil fluorescence
- 1149-1212' Silty-shale, medium gray, sandy

11/29/07

Top of the Pawnee Limestone @ 1212' (-242')

- 1212-1232' Limestone, light brownish-gray, pinkish tint, fine grained, smooth texture
- 1232-1236½' Shale, dark gray
- 1236½-1238' Lexington Shale, black, very carbonaceous, disseminated pyrite
- 1238-1243' Shale, dark gray
- 1243-1255' Shale, greenish-gray, silty
- 1255-1270' Sandy-shale, medium gray
- 1270-1302' Shale, medium gray

Top of the Oswego Limestone @ 1302' (-332')

- 1302-1330' Limestone, dark brown to light grayish-tan/off-white, fine grained, smooth texture
- 1330-1334' Shale, dark gray
- 1334-1336' Summit Shale, black, very carbonaceous, abundant coal micro flakes, pyrite with white calcite
- 1336-1339' Shale, medium gray
- 1339-1356½' Limestone, tan, fine grained, rough texture
- 1356½-1359' Shale, dark gray
- 1359-1362½' Mulky Shale, black, carbonaceous

Canister #8 @ 11:40 a.m. – Mulky Shale, 1359-1362½'

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- 1362½-1364¾' Shale, dark gray
1364¾-1377' Limestone, tan, fine grained, rough texture
1377-1384½' Shale, medium-dark gray
1384½-1386' Bevier Coal

Canister #07 @ 12:20 p.m. – Bevier Coal, 1384½-1386'

- 1386-1401½' Shale, medium-dark gray

Top of the Verdigris Limestone @ 1401½' (-461½')

- 1401½-1403' Limestone, dark brownish-gray, hard, fine grained, locally medium crystalline, rough texture
1403-1404' Shale, dark gray
1404-1405¼' Croweburg Shale, black
1405¼-1406½' Croweburg Coal

Canister #20 @ 12:40 p.m. – Croweburg Shale & Coal, 1404-1406½'

- 1406½-1412' Shale, light gray
1412-1420' Upper Cattleman Sandstone, light gray, poor porosity, no petroliferous odor/show
1420-1444' Shale, medium gray
1444-1446¾' Shale, black/grayish-black, slightly carbonaceous, disseminated pyrite
1446¾-1448' Fleming Coal, mostly vitreous, few thin dull bands, thin pyrite bands, semi-bright to bright satiny luster, 10% flat joint faces
1448-1524' Shale, light gray
1524-1525' Shale, dark gray
1525-1535' Cattleman Sandstone, light gray, poor porosity, no petroliferous odor/show
1535-1560' Shale, light gray/medium brown
1560-1572' Shale, very light gray, sandy
1572-1576½' Shale, medium gray
1576½-1693¼' Shale, dark gray/grayish-black (thin, carbonaceous lenses), lime streaks
1693¼-1695¾' Riverton Coal, vitreous bands, thinner bands look grainy, disseminated pyrite, glassy silky-metallic luster, locally white calcite layers, 10% flat cleat faces

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1695 $\frac{3}{4}$ -1716' Sandy-shale, medium gray, clay cementation, gritty/grainy, irregular quartz crystals

Top of the Mississippi @ 1716' (-746')

1716-1726' Chert, white, mostly chalky and siliceous, few flinty and dense cuttings, no visible porosity, no petroliferous odor/show

1726-1752' Chert, white, uniform pale brown oil staining, 85% sandy/sucrosic, 10% chalky, 5% flinty, overall <5-8% pinpoint and pinhead vuggy porosity, 5% of cuttings with 12+% intercrystalline and vuggy porosity, faint oil odor, no oil show, scattered black bitumen, 100% uniform bright yellowish-white oil fluorescence

1752-1763' Limestone (70%), light olive gray, very fine grained, silty, sandy appearance; Chert (30%), light bluish-gray, flinty, some limestone/chert fused pieces, no visible porosity/vugs, no petroliferous odor/show, 100% mottled bright yellowish-green oil fluorescence

T.D. @ 1763'

Julie Shaffer
Petroleum Geologist