

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 32581
Name: EXCO Resources, Inc.
Address: 12377 Merit Drive, Suite 1700 LB82
City/State/Zip: Dallas, Texas 75251
Purchaser: _____
Operator Contact Person: Sharon Figueroa
Phone: (214) 368-2084
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: Ed Grieves

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: _____
Well Name: _____
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. _____

<u>1-31-04</u>	<u>2/12/04</u>	<u>4/25/04</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 119-21125-00-00
County: Meade County, Kansas
SE SE NW SW Sec. 10 Twp. 35 S. R. 29 East West
1575 feet from S / N (circle one) Line of Section
1150 feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Adams Ranch Well #: 13-10
Field Name: Cimarron Bend
Producing Formation: Chester (Morrow not yet completed, will send separate form)
Elevation: Ground: 2357' Kelly Bushing: 2369'
Total Depth: 6400' Plug Back Total Depth: 6347'
Amount of Surface Pipe Set and Cemented at 1572' 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 *ALT I WITHIN 3-19-07*
(Data must be collected from the Reserve Pit)
Chloride content 2100 ppm Fluid volume 14,000 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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: [Signature]
Title: District Manager Date: 5-10-04
Subscribed and sworn to before me this 10th day of May,
20 04.
Notary Public: Yolanda C Miller
Date Commission Expires: Dec 30 2006



KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: EXCO Resources, Inc. Lease Name: Adams Ranch Well #: 13-10
 Sec. 10 Twp. 35 S. R. 29 East West County: Meade County, Kansas

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Chase	2520	-151
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Council Grove	2892	-523
List All E. Logs Run:		Toronto	4375	-2006
		Lansing	4484	-2115
		Kansas City	5048	-2679
		Marmaton	5230	-2861
		Cherokee	5454	-3085
		Morrow	5809	-3440
		Chester	5941	-3572
		St. Genevieve	6316	-3947

Induction Log with GR-SP
 Spectral Density-Dual Spaced Neutron with GR-Caliper
 Micro Log with GR-Caliper

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
Surface	12-1/4"	8-5/8"	24#	1572'	50/50 Poz	540	
Production	7-7/8"	5-1/2"	15.5#	6388'	50/50 Poz	340	5% CalSeal 6lb/sk Gilsonite 5% KCL

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
4	6263' - 6268' & 6274' - 6279'	2000 gal. 15% FE acid w/ additives	6263' to
		252 bbl. N Foam Acid Frac	6279'
4	5943' - 46', 5974' - 86', 6021' - 26', 6042' - 44'	4000 gal 15% FE acid w/ additives	5943' to
	Halliburton RBP at 6192' KB	386 bbl. N Foam Acid Frac	6044'

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		2-7/8"	5866'	5873'		
Date of First, Resumerd Production, SWD or Enhr. 4-25-04 For test purposes			Producing Method <input checked="" type="checkbox"/> Flowing <input 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	
	3	80	10	27,000	25	

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: Chester

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 19 2007

CONSERVATION DIVISION
WICHITA, KS

Proposed Total Depth: 6,300'
AFE: 134081

Daily Drilling Report
EXCO Resources, Inc.
Adams Ranch 13-10

1150' FWL & 1575' FSL
Section 10, T35S, R29W
Meade County, Kansas

Summary of last 24hr. operations as of 6:00 AM

- 1/31/04 PTD 77', Finish MIRU Duke Drilling Rig # 6. 20" conductor @ 77'. MU bit # 1. Bit # 1 12-1/4" HT-6. Spudded @ 3:00 PM
- 2/1/04 PTD 1,300', Progress 1,250'. Drlg f/50' to 1,300', MW 9.5 #, Vis 31.
Surveys: 1/2° @ 500', 1/2° @ 1,024'.
DMC: \$1,200 CMC: \$1,200
- 2/2/04 PTD 1,920', Progress 620'. Drlg f/1,300' to 1,572', MW 8.8 #, Vis 29.
Surveys: 1° @ 1,572'. Ran 35 jts 1560' + 12' landing jt new 24# J-55 ST&C 8-5/8" casing, set at 1572' KB, circulate 1/2 hr with rig pump, cement casing with 390 sacks lead Mid-Con "C" with 1/4# Floseal, 2% cc, tail with 150 sacks Premium Plus with 1/4# Floseal, 2% cc, plug down at 4:00 P.M., bump plug with 850#, float held, maintain good circulation, circulated 50 Bbls cement to pit, centralizer in center of 1st jt, strap 2 jts, centralizers on every other jt, top centralizer and basket at 132', 1 jt 8-5/8" casing left on location. WOC 8 hrs. New hole @ 1:00 AM. Bit # 2 - 7-7/8" Smith F128.; jets 12/12/12.
Halliburton \$13,088 Crown \$575 DWC \$13,663 DMC: \$963 CMC: \$2,163
- 2/3/04 PTD 2,890', Progress 970'. Drlg f/1920' to 2,890', MW 9.0 #, Vis 35.
Surveys: 1/2° @ 2,074', 1/2° @ 2,511'.
Displaced hole @ 2,550'. Mudding Up for Chase & Council Grove.
DMC: \$0 CMC: \$2,163
- 2/4/04 PTD 3,670', Progress 780'. Drlg f/ 2,890' to 3,670', MW 9.2 #, Vis 37, PV 10, YP 14, PH 8.5.
Drilling @ 3,720'.
DMC: \$1270 CMC: \$3,433
- 2/5/04 PTD 4,320', Progress 655'. Drlg f/ 3,670' to 4,320', MW 9.0 #, Vis 38, PV 15, YP 10, PH 9.0.
Surveys: 1° @ 3,907'
DMC: \$1270 CMC: \$3,433

2/6/04 PTD 4,381', Progress 56'. Drlg f/ 4,320' to 4,381, MW 9.0 #, Vis 60, PV 19, YP 18, PH 9.5, Gell# 8/12. Surveys: 3/4° @ 4,381'
 Made 31 std short trip. Hit bridge 120' off bottom. Drill out bridge washing 5' to bottom. DST # 1 4,371' - 4,381'. Went in hole w/ DST # 1. Hit bridge @ 4,117'. TOH w/ test tools. LD same. Circulate f/samples @ 4,350' for 1-1/4 hrs. No Show. TIH & drilling out bridge @ 4,117'.
 DMC: \$1484 CMC: \$6,452

2/7/04 PTD 4,415', Progress 34'. Drlg f/ 4,381' to 4,415, MW 9.1 #, Vis 44, PV 14, YP 13, PH 9.5, Gell# 3/14. DST # 2 4,371' - 4,381'. Recovered 434' salt water, partially gas cut. TIH & drilling @ 4:00 AM.
 DMC: \$264 CMC: \$6,716

2/8/04 PTD 5,020', Progress 605'. Drlg f/ 4,415' to 5,020, MW 9.0 #, Vis 46, PV 13, YP 9, PH 9.5, Gell# 2/10. Circulate f/samples @ 4,429' & 4,500' for 1-1/4 hrs.
 DMC: \$948 CMC: \$7,664

2/9/04 PTD 5,520', Progress 500'. Drlg f/ 5,020 to 5,520', MW 9.1 #, Vis 45, PV 18, YP 11, PH 9.5, Gell# 2/9. Circulate f/samples @ 4,429' & 4,500' for 1-1/4 hrs.
 DMC: \$1465 CMC: \$9,129

2/10/04 PTD 5,920', Progress 400'. Formation: Morrow. Drlg f/ 5,520 to 5,920', MW 9.0 #, Vis 48, PV 20, YP 10, PH 9.5, Gell# 2/9. Circulate f/samples @ 5,920' 3-1/2 hrs. Short Tripping for DST # 3.
 DMC: \$1515 CMC: \$10,644

2/11/04 PTD 6,132', Progress 212'. Drlg f/ 5,920 to 6,132', MW 8.8 #, Vis 58, PV 22, YP 9, PH 9.5, Gell# 2/8. Short Tripping for DST # 3. Stuck pipe @ 4,790'. Could not go up or down. Spotted 60 bbls crude oil. Pipe stuck for 5-1/4 hrs. Pipe came free. Could not go up but could go down. WIH and went back to drilling. Bit played out @ 6,132'. POOH w/bit. Bit # 3 - 7-7/8" Smith Fi28.; jets 12/12/12. Tight spot @ 4,790' and worked through.
 DMC: \$1,036 CMC: \$11,674

2/12/04 PTD, 6,400', Progress 268'. Drlg f/ 6,132 to 6,400', MW 9.1 #, Vis 63, PV 19, YP 9, PH 9.5, Gell# 2/7. Surveys: 1° @ 6,132'. TD'd well @ 5:30 AM.
 DMC: \$270 CMC: \$11,944

2/13/04 PTD, 6,400', Progress 0'. MW 9.1 #, Vis 65, PV 25, YP 12, PH 9.5, Gell# 4/12. RU Halliburton. RIH w/ DIL-CNL-FDC-GR-SP and Caliper. First log on bottom @ 5:00 PM. Done logging @ 5:00 AM
 DMC: \$66 CMC: \$12,786

2/14/04 PTD, 6,400', Progress 0'. POOH. LD drill pipe. Ran 144 jts. 5-1/2" 15.5# J-55 set @ 6,387'. Cmt'd w/340 sxs of 50/50 Poz. Bump plug w/ 1700# @ 1:45 AM. Release Rig @ 3:45 AM.

(1) Howco super seal float shoe	= 1.5'
(1) 5-1/2" 15.5# J-55, LT&C shoe joint	= 44.47'
(1) Howco super seal float collar	= 1.5'
(15) joints 5-1/2", 15.5#, J-55, LT&C casing	= 666.62'
(1) short joint 5-1/2", 15.5#, J-55, LT&C casing	= 36.25'
(31) joints 5-1/2", 15.5#, J-55, LT&C casing	= 1,376.11'
(1) short joint 5-1/2", 15.5#, J-55, LT&C casing	= 38.70'
(95) joints 5-1/2", 15.5#, J-55, LT&C casing	= <u>4,211.36</u>
	6,376.51'

with casing landed 10' below KB & 2' stretch, shoe at 6388.51' KB. Circulate and condition hole for 1 hour 30 min. Attached Halliburton line to cementing head and load bottom plug. Halliburton tested their line to 2600 psig then commenced cementing operations as follows:

1. Pumped 7 bbls 2% KCl spacer
2. Pumped 10 bbls mud flush
3. Pumped 7 bbls 2% KCl spacer
4. Mix and pumped stage # 1 cement; 25 sacks 50/50 Poz "C" w/ 5% calseal-6% Gilsonite - 5% KCl - 0.5% HALAD-322 at 11 ppg and 3.10 cubic ft per sack yield. Pump at 4 bpm and 100 psig.
5. Mix and pump stage # 2 cement; 340 sacks 50/50 Poz "C" w/ 5% calseal-6% Gilsonite - 5% KCl - 0.5% HALAD-322 at 11 ppg and 3.10 cubic ft per sack yield. Pump at 4 bpm and 100 psig.
6. Displace cement with 152 bbls clay-sta treated water. Pump at 6 bpm until 11 bbls remaining. Cut rate and lift cement. Final lifting pressure was 1250 psig. Bump plug and pressure up to 1700 psig. Hold pressure then bleed off. Floats held good. Lower casing slips into casing head and land same. RD Halliburton. Release Duke Rig # 6 @ 3:45 AM.

Monday, March 22, 2004, Daily Operation Report: Key Energy Services moved in and rigged up. Install tubing head and nipple up BOP on top of companion flange. Pick up 2 7/8" collar and seating nipple. Start picking up 2 7/8" tubing. Had 30 extra joints of new 2 7/8" tubing delivered from WB Supply Co. Tag bottom with 3' above slips on joint #197. Following is in hole:

196 jts 2 7/8", 6.5 ppf, J-55 EUE tubing	= 6307.42'
Tag Joint #197	= 32.46'
Seating Nipple and Collar	= 1.25'
Stretch	= 2.00'
KB Correction	= 4.00'

PBTD tagged at 6347' KB.

This compares to cased hole logger TD of 6314' on 3-11-04. Suspect cement sheath from 6314' to 6347'.

Lay down joint #197. Rig up to swab into Nichols rental swab tank. Start swabbing well down through the tubing. Swab down to approximately 4000'. Shut down operation overnight.

Tuesday, March 23, 2004, Daily Operation Report: KES on location. Resume swabbing operations. Got swabbed down to 5400' by 9:20 AM. Rig up to pull tubing from well. Start POOH at 9:30. Tally tubing while coming out. Finish POOH at 11:25 AM. The Halliburton packer man was on location at 11:00 and the Key hydrotester came at 11:30. Wait on Halliburton Wireline Services. They were due by noon. Call Halliburton at 12:45 PM. Said they got hung up on a job earlier this morning, but were expecting to be at location within an hour. Because this put them late by two hours, all afternoon plans are on hold. Acid breakdown was set up for 5:00 pump time. Cancel the acid breakdown job until tomorrow morning. Halliburton Wireline on location at 1:30 PM. Rig up perforators with lubricator on BOP. Pick up the first gun, a 4" scallop and run into well. Find fluid level going in at 5650' from surface. Tie into short joint from 5637' to 5674' plus above and below to get on depth with previously run (3-11-04) cement bond log. Lower gun and log collar at -6210 right on. Found bottom with 4" gun at 6314'KB, same as with CBL. Forgot to mention before that the 3.668" OD collar run on bottom of tubing showed we had run through some soft putty like cement, so the 4" perf gun being bigger stacked at same spot as CBL which is approximately 33' high to where we tagged with the tubing. Set collar locator at 6271' with 3' to top shot. Perforate 6274' - 6279' with 39 gram, .39" hole, and 45" penetration jets at 4 spf, 90° phasing. Pull perf gun from well. Fluid level out was at same depth of 5650'. No blow on lubricator with gun at surface. Remove lubricator and first gun. Install second gun. Rig up for second perforating run. RIH with 4" scallop gun. Found fluid level at 5650' going in. Had flagged line on first run and came out exactly on collar at -6210. Catch collar at 6254', then lower gun. Set collar locator at 6260'. Perforate 6263' - 6268' with same charges as before at 4 spf, 90° phasing. Pull gun from well. Fluid level may have come up 20' to 5630' on way out. Out of hole with gun at 2:40 PM. Rig down Halliburton Wireline unit. Rig up Key Hydrotester and pick up Halliburton RTTS packer. Wireline crew left at 3:00 PM. Count tubing joints in derrick and on trailer to verify our tubing tag depth and to insure we run correct amount for packer setting depth. Run two stands tubing into well, then lay down since 196 joints (98 stands) were racked

back and we needed only 192 joints (96 stands) for packer setting depth. Start hydrotesting and running packer and tubing into the well. Hydrotest tubing to 5000 psig. No failures. Get on bottom with packer. Rig down to hydrotester. Have the following in the well:

192 joints 2 7/8" tubing	= 6178.75'
HOWCO RTTS Packer & SN	= 8.10'
Stretch	= 2.00'
KB Correction	= 4.00'

Bottom of packer at 6193' KB. Packer rubbers at 6190' KB. Nearest 5 1/2" casing collars at 6165' KB and at -6210'KB. Halliburton packer man set packer and stacked down 18,000 lb compression on packer. Rig up to swab. Make one run and find fluid level at 5300' from surface. Shut in well overnight.

Wednesday, March 24, 2004, Daily Operation Report: KES and Halliburton Energy Service on location. Open well and it was on a vacuum. Make one swab run and find fluid level at 5600' from surface. Bring up water; no show of oil. Rig up HES to acidize. Nichols arrived with 130 bbl 2% KCL water. Load 40 bbl 2% KCL water onto HES. Hook up HES line to backside. Load annulus with 85 bbl 2% KCL water (fluid level in annulus calculates to have been at approximately 5475'). Shut down. Rig up to tubing with HES line. Pressure test line to 5700 psig. Start up pumping acid. Pump 420 gal, then start dropping balls. Tubing loaded with 34 2/3 bbl acid in. Break formation at 1800 psig. Bring rate up to 5.5 BPM at 1395 psig. After 1936 gal acid (46 bbl) switch to 2% KCL water flush. Increase rate to 6.2 BPM at 1946 psig. Very good ball action. Seeing numerous ball hits and pressure breaks. Pressure then went to 2154 psig, then up to 4261 psig. Started communicating pressure to annulus at 4261 psig. Annulus pressure went from 21 psig when treating pressure on tubing was 2154 psig up to 1772 psig when tubing treating pressure was at 4502 psig. Way too much pressure gain. Know we don't have split tube due to differential, so suspect the acid cleaned up scale or rust from the string and exposed a weak tubing collar perhaps. Still lacked 111 gal to get flush away. We are basically balled off, but not entirely, a small amount of leakage past the balls. Shut down and bleed annulus down from 1772 psig to 979 psig. Resume flush at 2.8 BPM at 862 psig tubing treating pressure. Appears balls fell off while shut down to bleed annulus. Annulus pressure was 967 psig when job finished at 9:05 AM. Acid breakdown job consisted of following:

- 2000 gal 15% FE acid with,
- 2 gal Losurf 300 & 2 gal HAI-GE inhibitor.
- Dropped (60) 7/8" OD RCN balls (50% excess) which were 1.3 specific gravity
- ISIP was 730 psig. 5 minute SIP was 364 psig.
- Average treating rate was 6 BPM and average treating pressure was 1600 psig.
- Maximum pressure after balls hit was 4556 psig.
- Flush volume was 38 bbl 2% KCL water.
- Total load was 84 bbl.

Rig crew hooked up annulus to swab tank and blew down pressure. Make up fitting to Halliburton valve and hook up tubing to flow back and bleed off tubing pressure. Flow back approximately 10 minutes and well died. Remove fittings and Halliburton valve. Install EXCO's 2 7/8" master valve and rig up to swab. Start swabbing at 10:15 AM with

fluid level at surface. By 11:50 had fluid level to 5000' and still going down. Started smelling acid at this time. Tank gauge at 12:00 noon was 15" so made 45 bbl. Make run at 1:00 and well swabbed down completely. Did start seeing oil in the samples. Water being recovered was spent acid water. Gas is acid gas, not natural gas. Shut in until 2:00. Had blow when opened but was acid gas. Ran swab and had 100' entry in one hour. Pulling from SN and milk it good. Oil cut increasing slightly. Last run of day came out at 5:45 PM. Good show of oil on last run. Total swabbed was 49 bbl. Load to recover is 35 bbl.

Monday, April 19, 2004, Daily Operation Report: Key Energy Services moved in rig to location. Rig up over well and set out guy lines. Rig up to pull tubing. Strip on BOP. Pick up on tubing and open bypass equalizer on Halliburton packer. Let fluid U-tube and equalize in wellbore. Trip out of hole and rack back 192 joints of 2 7/8" tubing. Remove packer from string. Shut in well.

Tuesday, April 20, 2004, Daily Operation Report: Key Energy Service on location. Halliburton Wireline Service arrived at 8:20 AM. Rig up HWS. Pick up full length lubricator and 4" perf gun. Start in hole with 4" gun #1 at 8:45. Tie into CBL dated 3-11-04. Run strip log across short joint at 5637' to 5676' and flag wireline at 5676'. Lower gun and catch additional collars to verify depth control. Found fluid level going in at $\pm 2000'$ from surface. Set collar locator at 6038.5' (3.5' to top shot), then perforate lowest zone of upper Chester from 6042' to 6044' with 4 spf, 39 gram charges, with 90° phasing. Total 8 perfs. POOH with gun and find FL at $\pm 2000'$ coming out. Rig down gun #1 and rig up gun #2. Start RIH with gun #2 at 9:40. Found fluid level going in at $\pm 1800'$. Wireline flag right on depth with short joint. Go on down and catch collar at $\pm 6031'$. Set collar locator at 6017.5'. Perforate 6021' – 6026' with same charges as before. Total of 20 perforations. POOH with gun #2 and fluid level out at $\pm 1800'$. RD gun #2 and RU gun #3. RIH with gun #3. Find fluid level at $\pm 1605'$. Tie in for depth control as before. Set CCL at 5970.5'. Perforate 5974' – 5986' as before with a total of 48 holes. POOH with gun #3 and fluid level was at 1650' from surface coming out. RD gun #3. RU gun #4. RIH with gun #4. Fluid level in was at $\pm 1650'$. Tie into collars for depth control as before. Set CCL at 5939.5'. Perforate 5943' – 5946' with same charges as previously given. Total of 12 perforations in this interval. POOH with gun #4 and fluid level still at 1650'. RD HWS perforators at 11:30 AM. Halliburton tool man on location before 10:00. Pick up Halliburton RBP, 2 7/8" x 4' tubing sub, Halliburton RTTS packer (1.91" ID) and 2 7/8" seating nipple. Start RIH at 12:15 PM. Get on bottom with tools and 192 joints 2 7/8" tubing. Wanted to set RBP with 26' of joint #192 above G.L. Rig powered out and clutch slipping when pulling up. Switch over to deadhead out with one line to drum. Measure 26' of #192 out. Set RBP at 6186.5' KB (bottom) with bottom cup at 6183', top cup at 6181', and top of RBP at 6179' KB. Release off RBP then go back down to verify it was in place. Pull and lay down 10 joints tubing. Set RTTS packer at 5873' KB with 15,000 lb. compression. Halliburton acid trucks arrived at 1:30, and Nichols Water Service at 2:15. Rig HES for acid job while KES rigged up to swab. Start swabbing at 2:25 PM. Found initial fluid level at 1400'. Swab tubing down to 5000' by 3:00 PM. RD swab. Make final rig up with HES. Load 5 1/2" x 2 7/8" annulus with 800 gallons, starting at 3:30 PM. Hook up HES line to pump down tubing. Pressure test lines to 5500 psig. At 3:48 start downhole with 15% FE acid containing LS 300 and HAI-GE. Had previously loaded 122 RCN ball sealers (1.3 S.G.) into ball dropper. After 10 bbl pumped, start dropping balls. Hole leaded with 1216 gals. (28.9 bbl). Breakdown formation at 2208 psig. Establish rate and pressure of 4 BPM at 1400 psig. Increase rate to 5 BPM at 1439 psig, then 6 BPM at 1933 psig, then to final rate of 7.6 BPM at 2240 psig breaking back to 1922 psig. Saw numerous excellent ball action with pressure breaks. With 3700 gallons acid pumped slow down to 5 BPM in preparation to switch over to flush. Finish pumping 4000 gal acid at 5 BPM at 900 psig. Start up flush and increase rate to 7.5 BPM. With 235 gals (5.6 bbl) flush in, balled off

zones with surface pressure to 3700 psig. Shut down and surge balls off. Resume flush at 7.5 BPM at 1801 psi. Finished flush at 4:13 PM at 7.6 BPM at 1660 psig. Shut down. ISIP = 250 psig. In less than one minute, pressure was zero. Have 134 bbl to recover. Break off HES iron and tubing was on vacuum. Rig up to swab. Found initial fluid level at 1200'. Swab 2.5 hours. Recovered 49 bbl. Last fluid level was at 4500' but scattered to the SN. Have 85 bbl to recover. SION.

Wednesday, April 21, 2004, Daily Operation Report: KES on location. Check pressure and SITP = 720 psig. Blow down pressure to swab tank. Rig up to swab. Found initial fluid level at 4500' after flow down. Swab on well. After 10:00 AM, wait 40 minutes before making next run since fluid entry had died off. Well vaporizing after each swab run. Smells like acid. By 11:00 AM had recovered 36 total bbl. Well settled in at 2 BPH fluid entry. By 5:00 PM had recovered total of 45 bbl today. Have 40 bbl left to recover. SION.

Thursday, April 22, 2004, Daily Operation Report: KES on location. More rain last night again. Had 4" - 5" rain Monday night plus another 1" to 2" last night. Location is a muddy mess. Halliburton Energy Services parked along road awaiting entry to location when we arrived at 6:20 AM. Check location. HES treating van got onto location okay. Started moving in HES trucks. First truck got onto location and in position with no problem. Pudgy dumb Halliburton treater stopped to second truck while he was still on the uphill climb into location. Guess what? He's stuck now. Call for dozer. In meantime, HES started gelling water in frac tank since pump truck was the first in and he managed to get spotted. Also, check pressure. Well SITP was 500 psig. Blow down well in 15 minutes. Rig up to swab. Make swab run and find minimum (50') fluid above SN at 5862'. Had a dab of oil on top, then acid water. Shut down swabbing. Dozer arrived and started getting HES trucks onto location and properly spotted. Rig up acid trucks and Nitrogen trucks. While cooling down N₂ pumps, make swab run. Come out with 50' fluid. Set back swab. Rig up HES to do acid frac. Start acid frac at 10:15 AM. Pressure test lines to 5300 psig. Start pumping job down tubing at 10:20 AM. Pump rate during job was essentially 12 BPM. Start out with 1500 gal gel pad. Pressure steadily climbed to 3700 psig, then broke to 3500 psig. N₂ going into gel pad at 6900 scfm. Start first acid pad with N₂ at 29,600 scfm. Pump this acid/N₂ stage which was 1800 gal acid and pressure increased to 4370 psig steady. Switch to second gel stage (1800 gals) with N₂ at 9,600 scfm. During this stage pressure decreased from 4370 psig to 3730 psig steady. Start pumping second acid (1800 gal) stage. Pressure increased from 3730 to 4350 psig steady. Finish this second acid stage and switch over to 3000 gal gel pad stage. Pressure on this third gel stage went from 4350 psig to 3770 psig steady. With one-half of gel pad gone (1500 gal) start dropping balls. String out 44 RCN balls over course of the remaining 1500 gal gel stage. Switch over and start the third acid (1800 gal) stage. Pressure went from 3800 psig to 4370 psig steady. Start the fourth stage (1800 gal) gel. Pressure went from 4370 psig down to 3770 psig steady. Switch to the fourth and final acid (2400 gal) stage with N₂ at 9600 scfm. Pressure went from 3770 psig up to 4340 psig steady. After final acid went in pump 210 gals gel to clear the lines, then flush with nitrogen. Flush with 39,200 scf N₂. Shut down. ISIP = 3000 psig. 5 minute SIP = 2775 psig. Total liquid volume pumped was 386 bbl. Shut in well at 12:15 PM after recording

the 5 minute shut-in pressure. Break off HES iron. Rig up fittings and choke for flowback to swab tank. Start flowback at 1:00 PM on 16/64th choke. Open well at 2550 psig. Gauge tank beforehand. In afternoon have Nichols empty out excess gel water from frac tank plus take two loads from swab tank. By 5:00 PM flowing pressure was 1300 psig and had recovered 49 total barrels. Have 337 bbl left to recover. Left well flowing on 16/64th choke to tank overnight.

Friday, April 23, 2004, Daily Operation Report: KES on location. More rain and still raining. Check well. Well dead. Pulled choke off wellhead fittings and well kicked off flowing, then died again. Remove HES frac valve. Attach 6' tubing sub. Pick up on tubing enough to release rig slips. Unbolt BOP from flange. Strip off BOP. Well kicked off flowing. Stab a cross-over and 2" valve on top on tubing sub and shut in well. Set production slips in tubing head. Could not get top tubing head ring over 2" valve to tighten down pack-offs. Hook up fittings to flow well to tank. Open up well and flow. Well flowed 170 bbl Thursday night and all day Friday until 7:30 PM. Nichols Water Service came and hauled 254 bbl out of flowback tank Friday evening. Leave well flowing to tank sans choke. As of 7:30 PM Friday, had recovered 219 bbl total. Have 167 bbl load to recover.

Saturday, April 24, 2004, Daily Operation Report: Check well since it was left flowing to tank overnight. As of 7:30 Am Saturday morning, the well had flowed 60.5 bbl in 12 hours. Total flowback recovery thus far is 280 bbl, leaving 104 bbl of load left to recover. Leave well flowing wide open to tank. Flowing pressure at tee above 2" valve was 65 to 70 psig steady.

Sunday, April 25, 2004, Daily Operation Report: Check well which was flowing wide open to tank. In 24 hours well flowed 68.4 bbl. Steady flowing pressure of 65 to 70 psig. Total recovery thus far is 348 bbl. Leaves 36 bbl left to recover. Leave well flowing to tank.

Monday, April 26, 2004, Daily Operation Report: Check well since it was flowing wide open to tank overnight. In 24 hours flowed 53 bbl. Still has steady flowing pressure at 65 to 70 psig. Catch sample and shows 15% oil cut. Total recovery thus far is 401 bbl. We are 17 bbl over load. Flow well until 5:30 Monday, then switch it over to go to separator. Will see what it does tomorrow morning. NOTE: Released rig and crew from job today. Rig got stuck in mud on location.

Tuesday, June 1, 2004, Daily Operation Report: Key Energy Services moved in and rigged up on Friday, May 28, 2004. Blow down well, including backside which had pressure, but we did not put a gauge on it. May have a leaky check valve or very small tubing collar leak. After blowdown, strip on BOP's and rig up floor. Pick up on packer set at 5866' (top) and dump backside. Let fluid U-tube and equalize in wellbore. Release packer. Pick up 10 joints of 2 7/8" tubing off ground. Tag RBP right where it should be with 26' of joint #192 out from G.L. Latch onto RBP and release it. Had some drag coming off bottom. Pull out of hole with tubing, packer and RBP. Some rubber elements torn up on both packer and plug. Find RCN balls stuffed in and around packer rubbers. This was because when ball catcher on RBP was later cleaned out, shale and LCM had fallen into the ball catcher area. Shut down and wait on HES perforators to arrive. Perforators arrived at 4:30 pm. Pick up full lubricator and perf gun #1. Run in hole with gun. Find fluid level at 3700' going in. Tie into short joint and get on depth. Lower gun and perforate the lower Morrow interval from 5910' – 5918' with 4 spf, 39 gram charges, 90° phase for a total of 32 holes. Pull gun from well and fluid level stayed at 3700'. With this fluid level, it appears Chester zones took a big drink after dumping the packer. Rig down gun #1 and rig up gun #2. Pick up gun #2 and lubricator. Run in hole with gun. Fluid still at 3700'. Get on depth, then perforate upper Morrow interval from 5898' – 5902' as before for a total of 16 holes. Pull gun from well. Fluid level still staying at 3700'. Rig down gun #2. Pick up mechanical setting tool and wireline set/tubing retrievable bridge plug. Run in hole. Get on depth, then set RBP with bottom at 5939', top at 5936.5'. Pull wireline and setting tool from well. Rig down HES wireline unit. Pick up HES RPS packer (59" long, 28" to center of rubbers from top) with a seating nipple above packer. Run packer and 31 stands tubing into well. Now 7:15 pm. Shut in BOP and install hero valve on tubing. Shut in well.

Wednesday, June 2, 2004, Daily Operation Report: KES on location. Find 450 psig SITP on well. Blow down to swab tank. Rig up for tubing and continue to run in hole with tubing and packer. Lay down two joints tubing (#183 and #182). Set packer with 181 joints in well. Bottom of packer at 5839' KB, top at 5834' KB, with rubbers at +5836' KB. Set packer with 14,000 lb. compression. Rig up and dump 100 lbs fine sand (7.5' fill-up in 5 1/2" casing) using 10-12 bbls water to dribble it down. Wait for sand to fall and settle in. In meantime Halliburton had arrived on location to do acid breakdown job. After spotting them in and getting rigged up, hook their line up to annulus. Start pumping KCL water and load annulus with 55.4 bbl. Pressure up annulus to 300 psig. Casing okay, but had a slight leak on BOP flange to the tubing head. KES crew had rigged up swab equipment. Start swabbing down tubing at 9:30 am. Down to 3500' by 10:20 am, but started recovering some sand previously dumped. Rig back swab equipment. Rig up Halliburton to tubing for acid job. Acidized well with 1500gals acid with additives, 72 RCN ball sealers and 1507 gallons (35.9 bbl) flush. Saw good ball action, but did not ball off. ISIP = 1182 psig and 5 minute SIP = 371 psig. Acid job was 7.5% FE acid mixture pumped at an average rate of 4.7 BPM with average treating pressure of 1850 psig. Maximum pressure observed was 2150 psig. Total load was approximately 72 barrels. Shut in well and break Halliburton iron off and load out. Install swab system. Start swabbing at 11:00 am. By noon had 42 bbl recovered. At 2:30 pm had recovered 49 bbl total. Slow swab rate down due to low fluid entry rate.

Swab run out at 3:25 pm. Had good oil show on top of sample bucket, then acid water. Started seeing slight gas blow. Last run of day was out at 4:20. Had small show of oil. Recovered a total of 57 bbl of the acid load. Have 15 bbl load left to recover. Shut in well.

Thursday, June 3, 2004, Daily Operation Report: KES on location. Check pressures. Had 900 psig SITP and 240 psig SICP. Small gas leak somewhere, but no liquid leak since no tubing to casing communication observed yesterday when acidizing. Blowdown both sides to swab tank. Swab until 5:00 pm. Recovery was mostly small amount of oil which had spent acid smell. The initial fluid level after blowdown was at 5300' (packer at 5834'). Initial swab recovery was 50% oil and 50% acid water. Continuous gas blow during the day's worth of swabbing. Recovered 6 bbl total. Hourly runs from noon until 5:00 pm were getting minimal to zero fluid up. Shut in well.

Friday, June 4, 2004, Daily Operation Report: KES on location. Check pressures. Had 1050 psig SITP and 170 psig SICP. Blow both sides down to swab tank. Rig up to swab. Found initial fluid at 5400'. Came out with acid smelling oil. Good gas blow to tank after swab down. Continue to intermittently swab on well during day. Recovered a total of 5 barrels. Halliburton sand truck and sand delivery truck showed up at 11:00 am. Transfer sand. Halliburton set up job to be at location by 2:00 pm. They arrived at 4:20 pm. Rig up Halliburton to frac Morrow zone. After testing lines had the safety meeting. Start pumping frac job at 6:16 pm. Start Delta Frac 140 job by pumping pad at 8.4 BPM until hole loaded with 33.5 barrels. Bring up rate and pressure until formation broke at 4250 psig down to 3050 psig. Frac away as follows:

Stage # & Volume (Gal)	Fluid Type	Sand Concentration	Rate (BPM)	Pressure (Psig)
(1) 3031	Delta Pad	-0-	8.4-19.1	1424/4248
(2) 1135	Delta 140	1 ppg	19.1	3746/4402
(3) 6088	Delta Pad	-0-	19.2/20.6	4679/4821
(4) 4038	Delta 140	1 ppg	20.6/20.3	4640/4911
(5) 12,247	Delta 140	2 ppg	20.3/20.0	4604/4838
(6) 3366	Delta 140	4 ppg	20.0/20.8	4850/4870
(7) 1473	Linear Gel	-0-	20.8/0	4870/3800

ISIP = 1460 psig and 5 minute SIP = 1060 psig. Finished pumping at 7:07 pm. Monitor the pressure. After one hour still had 580 psig. Halliburton rigged down and loaded out. Shut in well overnight. Total sand pumped was 58,800 lb 20-40 Brady sand. Total frac load was 747 bbl.

Saturday, June 5, 2004 Daily Operation Report: KES on location. Check pressure. Had 150 psig SITP. Open well up to swab tank. Flow 8 bbl frac water to tank and well died. Swab until 5:00 pm. Recovered 87 bbl fluid during day. Have 660 bbl load left to recover. Fluid level last two hours stayed at 5400'. Swab rate at end of day was 4 BPH. Shut in well.

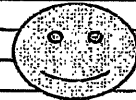
Monday, June 7, 2004, Daily Operation Report: KES on location. Check pressure. Had 50 psig SITP. Blow off pressure. Find initial fluid level at 1300'. Swab on well all day. Recovered 49 bbl today. Total swabbed in two days was 136 bbl. Have 611 bbl left to recover. After noon, the swab rate settled in at 2 BPH, and fluid level stayed at 5600'. SION.

Tuesday, June 8, 2004, Daily Operation Report: KES on location. Check pressure. Had 650 psig SITP. Blow off pressure. Find initial fluid level at 3200'. Swab all day. Recovered 18 bbl during day. After 10:00 am, rate settled in at approximately 1 BFPH, and fluid level stayed at 5700'. Some gassing was fairly continuous during the day. Started seeing oil in the swab sample at 1:00 pm. Total fluid recovered thus far was 154 bbl. (21% of load). Still have 593 bbl left to recover. Shut in at 2:00 pm.

HALLIBURTON JOB LOG		TICKET # 2921111	TICKET DATE 02/13/04
REGION Central Operations	NWA / COUNTRY Mid Continent/USA	BOA / STATE MC/Ks	COUNTY MEADE
MBLID / EMPL # MCL / IO104	H.E.S. EMPLOYEE NAME JOHN WOODROW	PSL DEPARTMENT Cement	
LOCATION LIBERAL	COMPANY EXCO RESOURCES	CUSTOMER REP / PHONE 316 JON SHINN	
TICKET AMOUNT \$13,746.30	WELL TYPE 01 OIL	API/WI #	
WELL LOCATION MEADE, KS.	DEPARTMENT CEMENT	JOB PURPOSE CODE Cement Production Casing	
LEASE NAME ADAMS RANCH	Well No. 13-10	SEC / TWP / RNG 10 - 35S - 29W	HES FACILITY (CLOSEST TO WELL) LIBERAL, KS.

HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS	HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
Woodrow, J 105848	10.5	Pollock, T 106089	0.5		
Oliphant, C 243055	10.5				

Time	Rate	Volume	Rate	Pressure (PS)	Job Description / Remarks
1330					JOB READY
1030					CALLED OUT FOR JOB
1330					PUMP TRUCK ON LOCATION / PRE JOB SITE ASSESMENT
1345					SPOT EQUIP. / RIG UP / RIG LAYING DOWN DRILL PIPE
1550					HOLD PRE JOB SAFETY MEETING
1600					START RUNNING 5 1/2 CASING & FLOAT EQUIP.
					CASING ON BOTTOM (6388 FT.)
					HOOK UP 5 1/2 P/C & CIRCULATING IRON
2100					START CIRCULATING WITH RIG PUMP
					HOLD PRE JOB SAFETY MEETING
2230		5.0			PLUG RH & MH WITH 25 SKS CMT.
2235					THROUGH CIRCULATING / HOOK UP TO PUMP TRUCK
					(JOB PROCEDURE)
2236				2600	TEST PUMP & LINES / RELEASE BOTTOM PLUG
2238	5.0	7.0		350	PUMP 7 BBLs. 2% KCL WATER SPACER
2239	5.0	10.0		350	PUMP 10 BBLs. MUD FLUSH
2243	5.0	7.0		300	PUMP 7 BBLs. 2% KCL WATER SPACER
2245	4.0	98.0		100	START MIXING 340 SKS CMT. @ 13.2#/GAL
					THROUGH MIXING CMT. / SHUT DOWN
					CLEAN PUMP & LINES / RELEASE TOP PLUG
2313	6.0			80	START DISPLACING WITH 2% CLAFIX TREATED WATER
2337	3.5	140.0		1100	HAVE 140 BBLs. OUT / SLOW RATE TO 3.5 BPM
2345				1250	MAX LIFT PRESSURE BEFORE LANDING PLUG
2345		152.0		1700	PLUG DOWN / RELEASE FLOAT
					FLOAT HELD
					THANK YOU FOR CALLING HALLIBURTON !!!
					(WOODY & CREW)



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