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STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 033 20888
County Comanche
NE - NE - NE Sec. 16 Twp. 34 Rge. 20 EW

Operator: License # 31232
Name: Cody Energy, Inc.
Address 7555 E. Hampden Ave.,
Ste. 600

330 Feet from SW (circle one) Line of Section
330 Feet from EW (circle one) Line of Section

City/State/Zip Denver, CO 80231
Purchaser: Koch Oil Company

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Selzer Well # 16-5

Operator Contact Person: Rock Petty
Phone (915) 686 0181

Field Name Schumacher North
Producing Formation Arbuckle

Contractor: Name: Brandt Drilling Company
License: 5840

Elevation: Ground 1759' KB 1772'
Total Depth 6500' PBDT 6102'

Wellsite Geologist: NA
Designate Type of Completion
 New Well Re-Entry Workover

Amount of Surface Pipe Set and Cemented at 698' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 5705 Feet

Oil SWD SIGW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl. Cathodic, etc)

If Alternate II completion, cement circulated from
feet depth to w/ sx cm.

Workover/Re-Entry: old well
Operator:
Well Name:

Drilling Fluid Management Plan ALT 1 5-19-95
(Data must be collected from the Reserve Pit)
Chloride content 8800 ppm Fluid volume 1400 bbls

Comp Date Old Total
Deepening Re-perf. Conv. to Inj/SWD
Plug Back PBDT
Commingled Docket No.
Dual Completion Docket No.
Other (SWD or Inj?) Docket No.

Dewatering method used hauled
Location of fluid disposal if hauled offsite:
Operator Name KBW

6/20/94 7/4/94 7/30/94
Spud Date Date Reached TD Completion Date

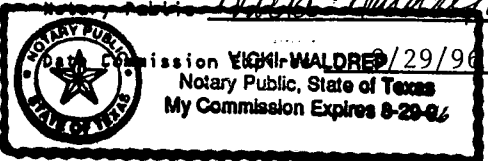
Lease Name Harmon SWD License No. 5993
Quarter Sec. 11 Twp. 33 Rng. 20 E/W
County Comanche Docket No. 98329

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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 Rock Petty
Title District Engineer Date 10/17/94

Subscribed and sworn to before me this 17th day of October 19 94
Vicki Waldrep



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)

SIDE TWO

Operator Name Cody Energy, Inc. Lease Name Selzer Well # 16-5
 Sec. 16 Twp. 34 Rge. 20 East County Comanche
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<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	Lansing	4320	-2548
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Swope	4753	-2981'
List All E.Logs Run: Sonic, Neutron/Density, Microlog, Induction, Dipmeter		Marmaton	4873	-3101'
		Pawnee	4955'	-3183'
		Miss	5101'	-3329'
		Osage	5662	-3890'
		Viola	6072'	-4300'
		Simpson	6248'	-4476'
		Arbuckle	6390	-4618'

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#	698'	50/50 Poz & "A"	200 + 150	6% gel, 2% CaCl ₂ 2% gel, 2% CaCl ₂
Production	7 7/8	5 1/2	17#	6249'	Scavenger "H" 50/50	64 + 100	5% seal, 18% salt, 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 checked="" type="checkbox"/> Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	6104'-6108'	Class H	50	None CIBP set at 6102'

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	6076'-6097'		sqz 25 sx neat cmt	
2	6104'-6108'		500 gal 15% HCL		6104-6108
2	6104'-6108'		sqz 50 sx neat cmt (twice)		6104-6108
2	6076'-6094'		500 gal 15% HCL		

TUBING RECORD		Size	Set At	Packer At	Liner Run			
		2 7/8	6100	NA		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj.			Producing Method					
8/1/94			<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	TSTM Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
	2				353		NA	41

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: 6076'-6094'



15-033-20888-0000

JOB LOG HAL-2013-C

DATE 7-16-94

CUSTOMER Cody Energy Co.	WELL NO. 16-5	LEASE Selzer	JOB TYPE Squeezes	TICKET NO. 614355
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0300							Called Out
	0700					1996		ON location
1	07.57	3/2				0		Load Hole w/ Wt
	07.39					200		H/c loaded - Circulating
	08.03		20BBL					Shut Down Class Annulus
2	08.05	4				700		Pump 20 BBL Fresh Water Into Formation
	08.06	1				900		Incr. Rate
	08.07	2				750		" "
	08.15	0						Fresh Water In Shut Down
	08.20							Open Annulus
3	08.22	2 1/2						Start Mixing 25 sks Cement
4	08.24		5 1/2 BBL			0		Cement M. red pump Kcl water to Spot Cement
5	08.40	0	33 BBL			0		Shut Down Cement Balanced across Perfs
6								Pull 8 JTs.
7	08.48	2				350	250	Reverse out Cement From Tubing
	09.00	0	35 BBL					Tubing Clean Shut Down
8	09.05	500				500		Close Annulus & PSI up On Cement Down Tubing
9	09.07	700	3/4 BBL			700		PSI up PSI Held
10	09.10					0		Release PSI
11	09.15					700		PSI Backup PSI Hold
12	09.20					0		Release PSI
								Wash Thru Cement
13	09.30	2				300	300	Run 3 JTs than Circulate
	09.35		5 BBL			0	0	Shut Down
14	09.35	2				400	400	Run 3 JTs than Circulate Tubing Clean
15	09.50	0	35 BBL			0	0	Tubing Clean
16	09.55	2				400	400	Wash Down w/ 7 1/2 Jt.
	10.00		12 BBL			300	300	got Down +/- 15' & Cement Hard +/- 6055 Should Be +/- 45' Cement To Drill
17	10.10	2				300	300	Circulate Tubing Clean
18	10.30		40 BBL			0	0	Tubing Clean
	11.30							Wash up Pump truck & Pick up

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Thank you.

OCT 18 1994

Kurt Dabon, Kevin Goodley & Larry Greener
Halliburton Energy Services

CONSERVATION DIVISION

WICHITA, KS
FIELD OFFICE

WELL DATA

FIELD Sec 16 TWP 34 S RING 20 W COUNTY Chick STATE Ks

FORMATION NAME Viola TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP _____ PRESSURE _____
MISC DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		15.5	5.2	0		
LINER						
TUBING		6.5	2.8	0	6097	
OPEN HOLE						SHOTS/FT
PERFORATIONS				6076	6084	
PERFORATIONS				6090	6097	
PERFORATIONS						

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JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-16-94</u>	DATE <u>7-16-94</u>	DATE <u>7-16-94</u>	DATE <u>7-16-94</u>
TIME <u>0200</u>	TIME <u>0700</u>	TIME <u>0700</u>	TIME <u>1200</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	MAKE
FLOAT COLLAR	<u>RELEASED</u>
FLOAT SHOE	<u>1-1-1994</u>
GUIDE SHOE	
CENTRALIZERS	
BOTTOM PLUG	<u>FROM CONFIDENTIAL</u>
TOP PLUG	
HEAD	
PACKER	
OTHER	

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>Kurt Dutoit #86160</u>	<u>90129 PU</u>	<u>PAH Ks</u>
<u>Kevin Cordley #8500</u>	<u>51936 PU</u>	<u>" "</u>
<u>Larry Gagne #82723</u>	<u>4413 Bulk TEL</u>	<u>" "</u>

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DEPARTMENT Cement
DESCRIPTION OF JOB Spot Cement & Squeeze Tubs
PROFS

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR Kurt Dutoit COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
	<u>50</u>	<u>CLASS H Perm</u>	<u>Hanco</u>	<u>3</u>	<u>None</u>	<u>1.18</u>	<u>15.6/gal</u>

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PRESSURES IN PSI SUMMARY

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL _____
CEMENT LEFT IN PIPE _____
FEET _____ REASON _____

VOLUMES
PRESLUSH: BBL -GAL _____ TYPE _____
LOAD & BKDN: BBL -GAL _____ PAD: BBL -GAL _____
TREATMENT: BBL -GAL _____ DISPL -BBL -GAL 33
CEMENT SLURRY: BBL -GAL 5.5 RD
TOTAL VOLUME: BBL -GAL _____

REMARKS

See Job log

OWNER Oil Energy Co
LEASE Selec
WELL NO. 16-5
JOB TYPE Squeeze
DATE 7-16-94

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CONSERVATION DIVISION
WICHITA, KS



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

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CUSTOMER <i>CSM Res.</i>		DATE <i>1-20-94</i>	FR # <i>1281193</i>	SER. SUP. <i>Co. (S) (S) (S)</i>	TYPE JOB <i>SOXCEL</i>								
LEASE & WELL NAME-OC SG <i>St. Zee 16-S</i>			LOCATION		COUNTY-PARISH-BLOCK <i>COMANCHE KS</i>								
DISTRICT <i>Waco</i>		DRILLING CONTRACTOR RIG # <i>W/O</i>		OPERATOR <i>Same</i>									
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE		SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES						
	TOP BTM						SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
RELEASED													
JAN 19 1996													
FROM CONFIDENTIAL						ORIGINAL							
Available Mix Water _____ Bbl.			Available Displ. Fluid _____ Bbl.			TOTAL							
HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
CAL. DISPL. VOL.-Bbl.			CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER	
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: _____

PRESSURE/RATE DETAIL					EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input type="checkbox"/> CO. REP <input type="checkbox"/>
	PIPE	ANNULUS				
2:00		0-200			H ₂ O	CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input type="checkbox"/>
2:03	0-200	800	0-2.0	12.0	H ₂ O	Pressure Ann To 800 Psi
2:07	0	800	0-2.0		CEM	ADJUSTION RATE
2:13	0	750	1.0-0	7.4	CEM	START CEMENT VIA TUBING @ 15.6 GPM
					H ₂ O	All CEMENT SHUT DOWN
					H ₂ O	LAST Pumps & Lines
2:16	0-100	700	0-4.0		H ₂ O	START the Displacement
2:17	0-200	680	4.0-0	4.0	H ₂ O	CATCH CEMENT Well on Vacuum
2:30	0	600	0	29.9	H ₂ O	Cement on
2:32	0	600	0	33.2	H ₂ O	WELL STOP TAKING FLUID
2:33	0-1000	600	0-2.0	33.3	H ₂ O	ENGAGE Pressure Pump Service Valve
2:35	1000-0	680			H ₂ O	HOLD Pressure
	1000-0	680		33.3	H ₂ O	WELL BACK SERVICE HOLDING
2:40		0-600	0-2.5		H ₂ O	Old Bypass Pressure OUT
2:57		600-0	25.0	40.0	H ₂ O	SHUT DOWN REST PACKER
2:57	0-1000				H ₂ O	Pressure Tubing
3:14	1000-0				H ₂ O	WELL OFF OIL
	0-800				H ₂ O	ALL S STDs REST PRESSURE
	0-300				H ₂ O	Pressure Ann

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BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP.	CUSTOMER REP.	CONSERVATION DIVISION WICHITA, KS
Y N		Y N		7.5	300				



THE WESTERN COMPANY
CEMENT JOB DETAIL SHEET

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CUSTOMER <i>Emulsion</i>		DATE <i>12-9-94</i>	F.R.# <i>123173</i>	SER. SUP. <i>G. Brechtel</i>	TYPE JOB <i>Well</i>											
LEASE & WELL NAME-DCSG <i>16-5</i>		LOCATION <i>KANSAS CORPORATION COMMISSION</i>		COUNTY-PARISH-BLOCK <i>Comanche Co Kansas</i>												
DISTRICT <i>16-5</i>		DRILLING CONTRACTOR RIG #		OPERATOR <i>Same</i>												
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE		TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES										
	TOP BTM	<i>A</i>	<i>A</i>	<i>1 8 1994</i>		MANI FOLD	SLURRY WGT. PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER				
		<i>25 3/4 H + 4 2 CF-2</i>	<i>WICHITA, KS</i>			<i>15.6</i>	<i>1.17</i>	<i>5.2</i>		<i>5.3</i>	<i>3.0</i>					
		<i>35 3/4 H</i>				<i>15.6</i>	<i>1.18</i>	<i>5.2</i>		<i>7.4</i>	<i>4.3</i>					
		<i>500 Cms 15% RELEASED (INHIBITED)</i>								<i>12.7</i>	<i>7.5</i>					
Available Mix Water <i>50</i> FROM CONFIDENTIAL						Available Displ. Fluid <i>2.0</i>		TOTAL		<i>22.7</i>	<i>17.8</i>					
HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS							
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE			
			<i>2 3/8</i>	<i>6.5</i>	<i>11-80</i>	<i>600</i>	<i>5 1/2</i>	<i>17</i>	<i>115</i>	<i>72</i>						
LAST CASING			CMT RET-BR PL-LINER			PERF. DEPTH			TOP CONN		WELL FLUID					
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.				
<i>5 1/2</i>	<i>170</i>	<i>11-80</i>	<i>17</i>	<i>MORRIS</i>		<i>6076</i>	<i>6108</i>	<i>2 3/8</i>	<i>8</i>	<i>H2O</i>	<i>8.3</i>					
CAL.-DISPL. VOL.-Bbl.			CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE	
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SO. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.	SOURCE			
<i>35.0</i>	<i>2.3</i>		<i>37.3</i>		<i>475</i>	<i>1000</i>		<i>1000</i>		<i>600</i>	<i>H2O</i>	<i>8.3</i>	<i>18.2</i>			
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:																
PRESSURE/RATE DETAIL							EXPLANATION									
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input type="checkbox"/>										
	PIPE	ANNULUS				TEST LINES <i>7500</i> PSI										
						CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input checked="" type="checkbox"/>										
		<i>800</i>			<i>H2O</i>	<i>Pressure Ann. TO 900</i>										
	<i>0-750</i>	<i>800</i>	<i>0-1.7</i>	<i>6.0</i>	<i>H2O</i>	<i>INJECTION RATE 34 BPM @ 750 PSI</i>										
<i>10:59</i>	<i>0-300</i>	<i>0</i>	<i>0-2.0</i>		<i>H2O</i>	<i>Open Bypass START ACID VIA TUBING TO SBT</i>										
<i>11:05</i>	<i>300</i>		<i>2.0</i>	<i>12.0</i>	<i>H2O</i>	<i>START FLUENT</i>										
<i>11:14</i>	<i>200-0</i>	<i>0-800</i>	<i>2.0-0</i>	<i>32.3</i>	<i>H2O</i>	<i>SHUT Down Close Bypass Pressure INTO 800</i>										
<i>11:15</i>	<i>0-600</i>	<i>800</i>	<i>0-1.7</i>	<i>32.3</i>	<i>H2O</i>	<i>RESUME FLUENT (20.3 Bbl H2O)</i>										
<i>11:18</i>	<i>600</i>	<i>700</i>	<i>1.7-0</i>	<i>35.3</i>	<i>H2O</i>	<i>ACID ON FLOOR</i>										
<i>11:20</i>	<i>600-0</i>	<i>700</i>	<i>1.7-0</i>	<i>37.0</i>	<i>H2O</i>	<i>FORMS DEAR ON VACUUM (2 BPM VA-)</i>										
<i>11:28</i>	<i>0</i>	<i>600</i>		<i>30.3</i>	<i>H2O</i>	<i>SHUT Down (OVERLAST 3 BBL)</i>										
						<i>KILL 2 JTS RIG BACK @ 70032</i>										
<i>11:46</i>		<i>0-800</i>			<i>H2O</i>	<i>Pressure Ann TO 800 PSI</i>										
<i>11:47</i>	<i>0</i>	<i>800</i>	<i>0-2.0</i>		<i>CEM</i>	<i>START CEMENT VIA TUBING @ 15.6 BBL</i>										
<i>11:53</i>	<i>0</i>	<i>700</i>	<i>2.0-0</i>	<i>5.3</i>	<i>CEM</i>	<i>ALL CEMENT SHUT Down</i>										
					<i>H2O</i>	<i>WASH RUNS + LINES</i>										
<i>11:55</i>	<i>0</i>	<i>650</i>	<i>0-4.0</i>	<i>10.7</i>	<i>H2O</i>	<i>START H2O DISPLACEMENT</i>										
<i>11:57</i>	<i>0-200</i>	<i>600</i>	<i>4.0-0</i>	<i>10.7</i>	<i>H2O</i>	<i>CATCH CEMENT SLOW RATE VACUUM</i>										
<i>12:08</i>	<i>0</i>	<i>400</i>	<i>0</i>	<i>32.0</i>	<i>H2O</i>	<i>CEMENT ON FLOOR</i>										
<i>12:13+</i>	<i>0</i>	<i>400</i>	<i>0</i>	<i>40.3</i>	<i>H2O</i>	<i>SHUT Down (OVERDISPLACED 5 BBL)</i>										
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. <i>G. Brechtel</i>					CUSTOMER REP. <i>Emulsion</i>				
Y N		Y N														



JOB SUMMARY

HALLIBURTON DIVISION *Mid Continent*
HALLIBURTON LOCATION *Prall, Ks.*

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BILLED ON TICKET NO. *614356*

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ COUNTY *Clark* STATE *Ks.*

FORMATION NAME *Viola* TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>7-18-94</i>	DATE <i>7-18-94</i>	DATE <i>7-18-94</i>	DATE <i>7-18-94</i>
TIME <i>0400</i>	TIME <i>0715</i>	TIME <i>10:30</i>	TIME <i>1300</i>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>Kurt Dukat #81060</i>	<i>90129 P.II.</i>	<i>Prall, Ks.</i>
<i>Kevin Goedkey #C8500</i>	<i>51936 P.II. Tel.</i>	<i>" "</i>
<i>Larry Grande #G 2723</i>	<i>4413 Bulk Tel.</i>	<i>" "</i>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____

DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____

NE AGENT TYPE _____ GAL. _____

FLUID LOSS ADD. TYPE _____ GAL-LB _____ IN

GELLING AGENT TYPE _____ GAL-LB _____

FRIC. RED. AGENT TYPE _____ GAL-LB _____

BREAKER TYPE _____ GAL-LB _____ IN

BLOCKING AGENT TYPE _____ GAL-LB _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

RELEASED

ORIGINAL

JAN 11 1996

FROM CONFIDENTIAL

DEPARTMENT *Cement*

DESCRIPTION OF JOB *Sauvage Profs 6104-6108 w/socks, Standard w/1% Haled-322*

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE *X*

HALLIBURTON OPERATOR *Kurt Dukat* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK	MIXED LBS./GAL.
<i>SU</i>	<i>Standard</i>	<i>Hercos</i>	<i>B</i>	<i>19 Haled-322</i>	<i>None</i>	<i>1.18</i>	<i>15.64</i>
<i>SO</i>	<i>Premium</i>	<i>"</i>	<i>"</i>	<i>None</i>	<i>None</i>	<i>1.18</i>	<i>15.10</i>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL *10.5*

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL *454 BBL-TOT*

ORDERED _____ AVAILABLE _____ USED _____

TREATING _____ DISPL _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

REMARKS

CONFIDENTIAL

CUSTOMER *Odd Energy Corp*

LEASE *Sales 23*

WELL NO. *165*

JOB TYPE *Sauvage*

DATE *7-18-94*



JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Cody Energy Company		16-5		SELZER		SQUEEZE		64356	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	04:00								Called Out ORIGINAL
	07:15								ON location
	07:45								RELEASED Truck Setup RTP
	08:00								Rig Tripping Tubing
	10:35								JUN 17 1996 Tubing Back In Hole @ 6108
1	10:38	3				400			Pump 20 BBL Fresh Water
2	10:44	1	20 BBL			400			Pump 15 BBL KCL Water
3	10:49	2	15 BBL			0			Shut Down & Close Annulus
	10:50								Pump 20 BBL OF Freshwater Into Formation
4	10:50	1/2				800			Increase Rate
5	10:51	2				700			Increase Rate
6	11:00		20 BBL						Shut Down Open Annulus
7	11:03	2				300			Start Mixing Socks Standard w/ 1% Hated 322
8	11:07	3	10.5 BBL			100			Cement Mixed Pump KCL Water Behind to Spot Cont
9	11:20		32 BBL			0			Cement Spotted Across Peers
	11:20					0			Close Annulus
	11:20								Pull 8 stands (16 Joints)
10	11:33	1/4				0			Start Displacing Cement Takes 1 BBL to Fill Void Left From Pulling 16 Joints
	11:36	1/4	1 BBL			100			PSI INCR. KANSAS CORPORATION COMMISSION
	11:38	1/4				600			PSI INCR.
11	11:39	2	14 BBL			1000			Shut Down OCT 17 OCT 18 1994
	11:40					1000			PSI Holding CONFIDENTIAL
12	11:44					0			Release PSI CONSERVATION DIVISION WICHITA, KS
									Run 4 stands (8 joints) to shot washing down
13	11:50	2				200	200		Wash Down w/ 9th Joint
	11:53	2				0			Shut Down
									Run 2 stands (4 joints) 13 total In Hole
14	11:55	2	3 BBL			700	700		Wash Tubing Clean
	12:15								Run 1 stand (2 joints) (15 total)
15	12:17	2				200	200		Circulate 3 BBL & shut down
	12:19								Run 1 stand (2 joints) (17 total)
16	12:20	2				300	200		Circulate Tubing Clean
17	12:35		40 BBL						Tubing Clean Shut Down
	13:00								Job Complete Pull 16 Joints & Shut

FIELD OFFICE

Thank you, Karel Dabert, Kevin Cuddy, Janet



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid-Continent
Patt, Kansas

BILLED ON TICKET NO. 614352

WELL DATA

FIELD _____ SEC 16 TWP 34S RNG 20W COUNTY Clark STATE Ks

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		15.5#	5 1/2"	0	4903	
LINER Csg.		17#	5 1/2"	4903	6249	
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES	TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR			
FLOAT SHOE	Competition		
GUIDE SHOE	Flat		
CENTRALIZERS	Equipment		
BOTTOM PLUG			
TOP PLUG			
HEAD	5 1/2" PC	1	Huaco
PACKER			
OTHER			

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
7-3-94	16:30	7-3-94	20:00	7-3-94	20:30	7-4-94	16:00

TOOLS AND ACCESSORIES

TYPE AND SIZE

QTY.

MAKE

Float Collar

Float Shoe Competition

Guide Shoe Flat

Centralizers Equipment

Bottom Plug

Top Plug

Head 5 1/2" PC 1 Huaco

Packer

Other

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
7-3-94	16:30	7-3-94	20:00	7-3-94	20:30	7-4-94	16:00

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____

DISPL. FLUID Fresh water & Mud DENSITY _____ LB/GAL. API _____

PROP. TYPE _____ SIZE _____ LB _____

PROP. TYPE _____ SIZE _____ LB _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

SURFACTANT TYPE _____

NE AGENT TYPE _____ GAL. _____ IN _____

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____

GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____

BREAKER TYPE _____ IN _____

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Kurt Dubot #81060	41278 P.U.	Patt, Ks.
Kevin Goodley #C8500	51936 Pump Tel	" "
Keith DeFert #81513	4413 Bulk Tel	" "
Marvin Monaghan #C 9017	4142/5621 Bulk Tel	" "

RECEIVED

KANSAS CORPORATION COMMISSION

OCT 18 1994

CONSERVATION DIVISION

WICHITA, KS

DEPARTMENT _____

DESCRIPTION OF JOB 5 1/2" 2-Stage Inj. Cement

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE **X**

HALLIBURTON OPERATOR Kurt Dubot

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU. FT./SK.	MIXED LBS./GAL.
1-LOAD	65	50/50 Premium	2 Huaco	B	2% Gel, 2% CC, 12.5% G. Isante, 0.5% Haled, 5% Salt	1.53	13.9
1-TAIL	65	EA-2 Premium	"	R	5% G. Isante, 12.5% G. Isante, 7.5% Haled, 3.2% Salt	1.51	14.8
2	275	50/50 Prem. Pz	Huaco	B	2% Gel, 12.5% G. Isante, 1.5% Haled, 9.5% Salt	1.53	13.2

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 19.83' REASON Latch Down Baffle

SUMMARY

20 BBL H₂O - 1st STAGE

20 BBL H₂O - 2nd STAGE

LOAD & BKDN: BBL - GAL _____

TREATMENT: BBL - GAL _____

CEMENT SLURRY: BBL - GAL _____

TOTAL VOLUME: BBL - GAL _____

REMARKS

2 stage Tool @ 5705'

Backhoe @ 6249'

Energy, Inc. LEASE SETZER WELL NO. 16-5 JOB TYPE 2-Stage 15 DATE 7-3-94



HALLIBURTON CONFIDENTIAL

DATE 7-4-94

JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Cody Energy, Inc.		#16-5		SELZER		5 1/2 2 STAGE L.S.		104352	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
6	08:40	7BPM	120BBL				100	Mud Pumped Start water PSI Decreasing	
7	08:45	Q	30BBL				550	Shut Down Tool Clear of Hulls	
								Mix up Mud w/Hulls Still Dont have Circulation	
	11:30							Pump Mud w/Hulls ORIGINAL	
	13:05							Mud Pumped + 400 BBLs No Circulation	
	13:15							PSI ON Casing	
	13:15							Flow Back Casing to load Plug In head	
	13:45							Head loaded	
1	13:45	4	20 BBL				300	Start Water Ahead	
2	13:50	"	9 BBL				400	Pump Superflus	
3	13:52	"	5 BBL				400	Pump 5 BBL w/te spacer	
4	13:52							Start Mixing Cement	
	13:52	4	6 BBL				400	1st 15SKS SCAVANGER @ 10#/Gal	
	13:55	"	27 BBL				400	Mix 100SKS Cement @ 13.2#/Gal	
5	14:10	Q					Q	Cement Mixed, Close Valve, Release Plug, Wash Pump & Lines & Pin Top Valve	
6	14:15	6					200	Start Displacement	
7	14:25	"					700	PSI Increasing LIFTING PSI	
8	14:37	4					500	Slow Rate last 10 BBL (No Circulation)	
9	14:40	Q	135.5 BBL				2000	Plug Down D.V. Tool Closed	
10	14:41							Release PSI	
	14:42						Q	Tool Held	
								Washup Truck	
								Job Complete	
								OCT 17	
								CONFIDENTIAL	
								No Circulation ON 2nd Stage	
								Thank you, Kurt Dohet	

RECEIVED KANSAS CORPORATION COMMISSION

OCT 18 1994

CONSERVATION DIVISION WICHITA, KS

CONFIDENTIAL

Phone 913-483-2627, Russell, KS
Phone 316-793-5861, Great Bend, KS

Phone 913-625-5516, Hays, KS
Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

6405

Home Office P. O. Box 31

Russell, Kansas 67665

ORIGINAL

NEW Well

Date	6-20-94	Sec.	16	Twp.	34	Range	20W	Called Out	7:30 PM	On Location	10:00 PM	Job Start	6-21 11:25 AM	Finish	2:00 AM
Lease	SELZER	Well No.	16-5	Location	PROTECTION 55-12W 2 1/2 S W 1/2 S			County	COMANCHE	State	KANSAS				

Contractor	BRANDT Dng Reg # 2		
Type Job	SURFACE		
Hole Size	12 1/4	T.D.	718
Csg.	20" - 8 5/8	Depth	40 - 698
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left	RECEIVED	Shoe Joint	43
Press Max.	KANSAS CORPORATION COMMISSION	Minimum	
Meas Line	OCT 18 1994	Displace	FRESH H ₂ O 41.25 RELEASED
Perf.			

Owner Cody ENERGY INC.
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Cody ENERGY INC.
 Street 7555 E. HAMPDEN AVE. STE 600
 City DENVER State CO. 80231
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. [Signature]
 X

Amount Ordered 150 SK CLASS A 2% GEL + 2% CC
 CEMENT
200 SK 65/35 6% GEL 12% CC + 1/4" Flo-Seal

CONSERVATION DIVISION
 WICHITA, KS EQUIPMENT
 JAN 11 1996

No.	Cementer	272 FROM NEALER
Pumptrk 265	Helper	CARL B
No.	Cementer	
Pumptrk	Helper	
	Driver	MARK B.
Bulktrk 256/251	Driver	

Consisting of		
Common	280	1610.00
Poz. Mix	70	210.00
Gel.	13	112.00
Chloride	8	200.00
Quickset	OCT 17	
Flo-Seal	50#	55.06

DEPTH of Job	698'	
Reference:	Pump Charge	585.22
60	MILEAGE ON PUMP	135.00
1	8 5/8 Top Rubber Plug	83.00
	Total	\$803.22

Handling	350	350.00
Mileage	350	840.00
	#4561.22	
	912.24	
	#3648.98	
	Net 30 Day	3382.00

Remarks: KAN 8 5/8 TO 698' - CEMENTED WITH
 200 SK LETE 2% CC + 1/4" Flo-Seal Followed
 by 150 SK CLASS A 2% GEL + 2% CC - Disp.
 Plug to 655' with 41.25 Gals H₂O
 CEMENT DID CIRCULATE!

Floating Equipment	
1-8 5/8 Baffle Plate	105.00
1-8 5/8 BASKET	180.00
1-8 5/8 CENTRALIZER	61.00
1-Pt. TH.D. LOCK	3000
	\$376.00

THANKS (NR)



HALLIBURTON

CONFIDENTIAL

DATE: 7-3-94

JOB LOG HAL-2013-C

CUSTOMER: **Cody Energy, Inc.** WELL NO.: **# 116-S** LEASE: **SELZER** JOB TYPE: **5 1/2" 2-Stage Logging** TICKET NO.: **614352**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	16:30							Called Out
	20:00							on location ORIGINAL
	20:00							RELEASED
	20:30							Rig Running Casing
	21:00							30 JTS OFF Bottom
	21:30							FILL PIPE & BREAK Circulation
	22:30							FINISH Running PIPE
	23:00							PIPE ON Bottom
	00:10							Rig up to Circulate
	00:12	4 BPM					300	Drop Ball to Set Packer Shoe
1	00:25		40 BBL				1200	Start Pumping Mud to Set Packer shoe
2	00:25	"	20 BBL				250	PACKER shoe SET
3	00:32	"	9 BBL				250	Pump Super Flush
4	00:34	"	5 BBL				250	Pump Fresh Water Spick
5	00:40	6 BPM	17 BBL				400	START MIXING LEAD Cement @ 13.9#/gal
6	00:45	"	17 BBL				200	START MIXING TAIL Cement @ 14.8#/gal
	00:48	Ø					Ø	Cement Mixed, Close Valve, Washout Pump
								Ø Lines, Drop Plug OPEN TOP VALVE
7	00:52	7 BPM					100	Start Displacement
	00:55	"	15 BBL				100	Water Displacement in Start Displacem w/mud
8	01:09	6 BPM					400	Pressure Increasing Lifting Cement
9	01:15	Ø	134 BBL				1500	Plug Down
10	01:17						Ø	RELEASE PSI (Float Held Plug Held)
	01:20							Drop Opening Bomb
	01:53	3 BPM					900	PSI up ON D.V. Tool
11	01:55						200	Tool open Hole Circulating
12	02:05		24 BBL MUD					Shut Down & Hook up to Rig Pump
	02:10							Lost Circulation
	02:25							Mix Halls In Mud to get Circulation Back
	06:30							Still Don't have Circulation out of Mud
	06:30							Get More Mud Delivered
	08:00							120 BBL Mud Mixed
1	08:10	2 BPM					300	Start Pumping Mud w/Pump TRK to Clear Tool
2	08:22	4 BPM					400	Pumping Mud Incr. Rate
3	08:25	5 BPM					500	Pumping Mud " "
4	08:30	6 BPM					600	Pumping Mud " "
5	08:34	7 BPM					700	Pumping Mud " "

RECEIVED KANSAS CORPORATION COMMISSION

OCT 18 1994

CONSERVATION DIVISION WICHITA, KS

Chart #2