

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 20885-0006
County Comanche
 - NW - NW - NW Sec. 15 Twp. 34S Rge. 20 X W

Operator: License # 31232
Name: Cody Energy, Inc.
Address 7555 E. Hampden Ave.,
Suite 600
City/State/Zip Denver, Colorado 80231

330 Feet from S (circle one) Line of Section
330 Feet from E (circle one) Line of Section

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

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Bobwhite Well # 15-1
Field Name Mother's Day

Contractor: Name: H-40 Drilling, Inc.
License: 30692
Wellsite Geologist: None

Producing Formation Viola
Elevation: Ground 1755' KB 1768'
Total Depth 6600' PBDT 6106'
Amount of Surface Pipe Set and Cemented at 721 Feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set Feet

Designate Type of Completion
X New Well Re-Entry Workover
X Oil SWD S10W Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

If Workover/Re-Entry: old well info as follows:
Operator:
Well Name:
Comp. Date Old Total Depth
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.
4/28/94 5/11/94 6/7/94
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan ALT 1 J 2 3/3/95
(Data must be collected from the Reserve Pit)
Chloride content 9500 ppm Fluid volume 1500 bbls
Dewatering method used hauled offsite
Location of fluid disposal if hauled offsite:
Operator Name KBW
Lease Name Harmon SWD License No. 5993
NW Quarter Sec. 11 Twp. 33 S Rng. 20 E/W
County Comanche Docket No. 98329

CONFIDENTIAL

RELEASED

OCT 2 6 1993

FROM CONFIDENTIAL

AUG 2 5

CONFIDENTIAL

AUG 26 1994

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 Rock Petty
Title District Engineer Date 8/25/94
Subscribed and sworn to before me this 25th day of August
19 94.
Notary Public Vicki Waldrep Vicki Waldrep
Date Commission Expires 8/25/94

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)

JAN 31 1990

SIDE TWO

Operator Name Cody Energy, Inc. Lease Name Bobwhite Well # 15-1

Sec. 15 Twp. 34S Rge. 20 East West County Comanche

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input 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	4322'	-2554
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Marmaton	4874'	-3106'
List All E.Logs Run:		Pawnee	4959'	-3191'
Neutron-Density, Induction, Sonic		Miss	5109'	-3341'
Microlog, Dipmeter		Viola	6076'	-4308'
		Simpson	6260'	-4492'
		Arbuckle	6379'	-4611'

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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
Conductor		20		40'	Grout	4 yds	
Surface	12 1/4"	8 5/8 new	24#	721'	A	375 sx	Lite & Neat 2%cc
Production	7 7/8"	5 1/2 used	15.5#	6251'	H 50/50 poz	125 sx	2% gel 5% salt 12.5pps gil .5% FLA

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	6200	H	50	0.5 Halad-322
<input checked="" type="checkbox"/> Plug Back TD				Set CIBP @ 6106'
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
2	6158'-6174'	1650 gal 15% acid
	cement retainer set @ 6145'	25 sx cement squeeze 6158'-6174'
2	6114'-6122'	no acid-squeeze w/50 sx 6114'-6122'
2	6083'-6091'	natural

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 7/8	6008	6008	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method			
6/7/94		<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
	93.52	70	15	0.7485	46

Disposition of Gas: Vented Sold Used on Lease

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

Production Interval: 6083'-6091'

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

API#15-033-20885-0000

Drill-Stem Test Data

ORIGINAL

CONFIDENTIAL

Well Name BOB WHITE #15-1 Test No. 1 Date 5/5/94
 Company CODY ENERGY Zone MISS
 Address 7555 E HAMPDEN AVE-#600 DENVER CO 80231 Elevation 1768 KB
 Co. Rep./Geo. CHUCK EMERSON Cont. H-40 DRLG RIG #2 Est. Ft. of Pay _____
 Location: Sec. 15 Twp. 34S Rge. 20W Co. COMANCHE State KS

Interval Tested 5206-5257 Drill Pipe Size 4.5" XH
 Anchor Length 51 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5201 Drill Collar - 2.25 Ft. Run 621
 Bottom Packer Depth 5206 Mud Wt. 9.2 lb/Gal.
 Total Depth 5257 Viscosity 44 Filtrate 10.2

Tool Open @ 9:00 AM Initial Blow SLID TOOL 14 FT TO BOTTOM-STRONG BLOW -
BOTTOM OF BUCKET IN 1 MINUTE **RELEASED**
 Final Blow NO BLOW - FLUSHED TOOL-NO HELP-GOOD SURGE
TOOL PLUGGED - ANCHOR PLUGGED **OCT 26 1995**

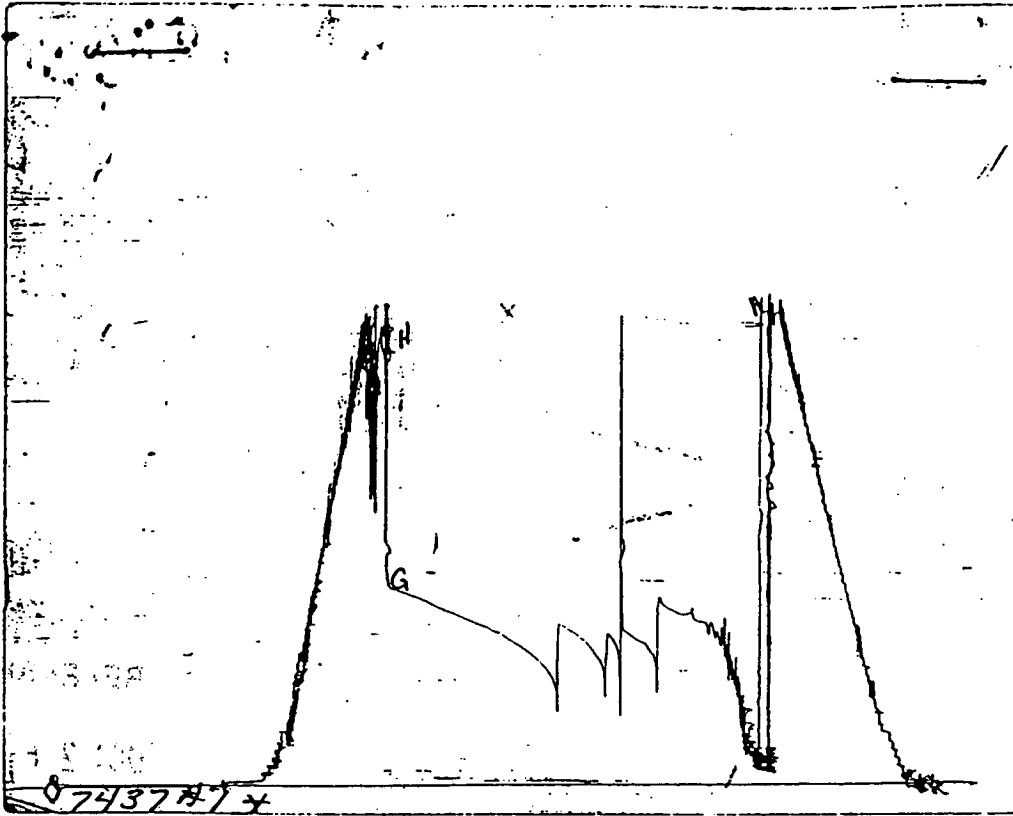
Recovery - Total Feet 300 Flush Tool? YES **FROM CONFIDENTIAL**
 Rec. 300 Feet of MUD WITH SLIGHT SCUM OF OIL **AUG 26 1994**
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____ **CONFIDENTIAL**

BHT 135 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 9500 ppm System

(A) Initial Hydrostatic Mud 2583.1 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure _____ PSI @ (depth) 5210 w / Clock No. 27458
 (C) First Final Flow Pressure _____ PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-in Pressure _____ PSI @ (depth) 5253 w / Clock No. 27501
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 1069.8 PSI Initial Opening 15 Final Flow 70
 (H) Final Hydrostatic Mud 2488.7 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart #7437

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2576	2583.1
(B) FIRST INITIAL FLOW PRESSURE		
(C) FIRST FINAL FLOW PRESSURE		
(D) INITIAL CLOSED-IN PRESSURE		
(E) SECOND INITIAL FLOW PRESSURE		
(F) SECOND FINAL FLOW PRESSURE		
(G) FINAL CLOSED-IN PRESSURE	1062	1069.8
(H) FINAL HYDROSTATIC MUD	2492	2488.7

FLUID SAMPLER DATA

ORIGINAL
CONFIDENTIAL

Ticket No.: 7109

Date: 5/5/94

Company: CODY ENERGY

NOL

Lease: BOB WHITE #15-1

Test No.: 1

AUG 2 5

County: COMANCHE

Sec.: 15

Twp.: 34S

CONFIDENTIAL
Rng.: 20W

SAMPLER RECOVERY

Gas
Oil SCUM
Mud 3500
Water
Other
Pressure 900
TOTAL 3500

PIT MUD ANALYSIS

Chlorides 9500
Resistivity 0.55 ohms@ 80 F
Viscosity 44
Mud Wt. 9.2
Filtrate 10.2
Other

SAMPLER ANALYSIS

Resistivity 0.55 ohms@ 80 F
Chlorides 9500 ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

ORIGINAL

CONFIDENTIAL

Well Name BOB WHITE #15-1 Test No. 2 Date 5/6/94
 Company CODY ENERGY Zone MISS
 Address 7555 E HAMPDEN AVE-#600 DENVER CO 80231 Elevation 1768 KB
 Co. Rep./Geo. CHUCK EMERSON Cont. H-40 DRLG RIG #2 Est. Ft. of Pay _____
 Location: Sec. 15 Twp. 34S Rge. 20W Co. COMANCHE State KS

Interval Tested 5200-5333 Drill Pipe Size 4.5" XH
 Anchor Length 133 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5195 Drill Collar - 2.25 Ft. Run 529
 Bottom Packer Depth 5200 Mud Wt. 9.1 lb/Gal.
 Total Depth 5333 Viscosity 45 Filtrate 8.6

Tool Open @ 10:15 AM Initial Blow STRONG - BOTTOM OF BUCKET IN 1 MINUTE
 Final Blow STRONG- BOTTOM OF BUCKET IN MINUTE

Recovery - Total Feet 276 Flush Tool? NO

Rec. 644 Feet of GAS IN PIPE
 Rec. 276 Feet of GASSY MUD WITH SCUM OF OIL
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

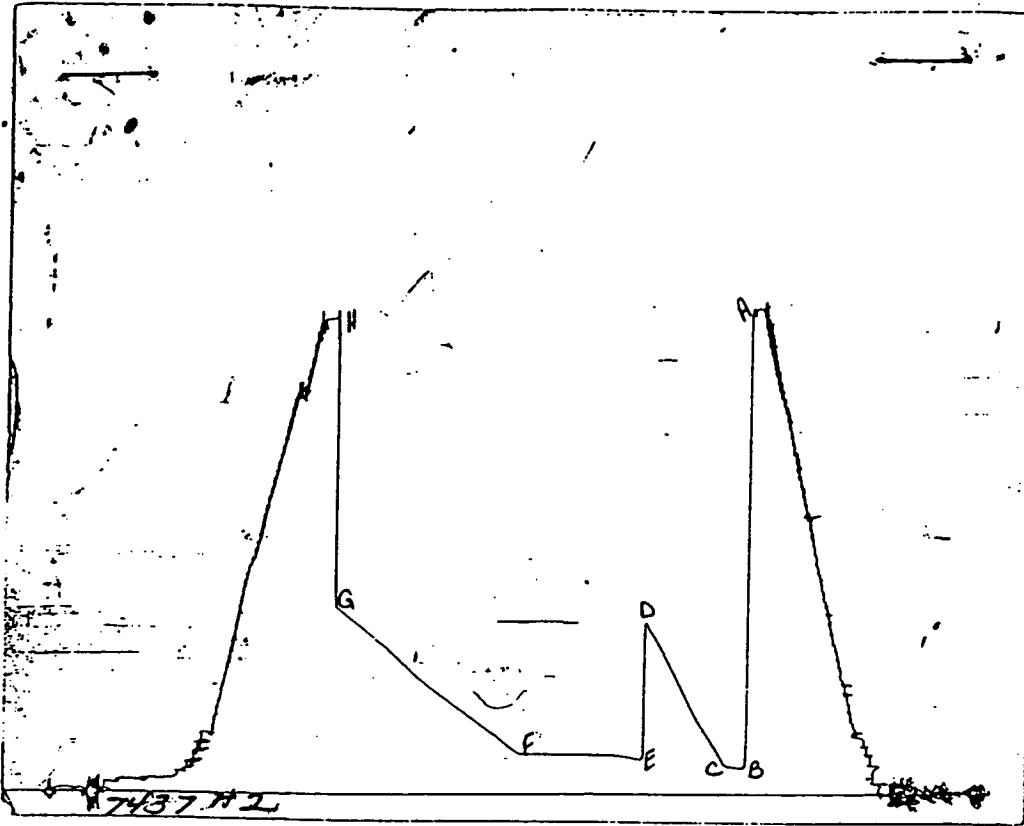
NOG
AUG 2 5
CONFIDENTIAL

BHT 140 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 11000 ppm System

(A) Initial Hydrostatic Mud 2571.9 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 140.9 PSI @ (depth) 5204 w / Clock No. 27458
 (C) First Final Flow Pressure 154.1 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-in Pressure 916.2 PSI @ (depth) 5329 w / Clock No. 27567
 (E) Second Initial Flow Pressure 189.4 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 215.8 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 989.6 PSI Initial Opening 15 Final Flow 90
 (H) Final Hydrostatic Mud 2508.2 PSI Initial Shut-in 60 Final Shut-in 135

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart #7437

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2623	2571.9
(B) FIRST INITIAL FLOW PRESSURE	127	140.9
(C) FIRST FINAL FLOW PRESSURE	147	154.1
(D) INITIAL CLOSED-IN PRESSURE	917	916.2
(E) SECOND INITIAL FLOW PRESSURE	177	189.4
(F) SECOND FINAL FLOW PRESSURE	196	215.8
(G) FINAL CLOSED-IN PRESSURE	986	989.6
(H) FINAL HYDROSTATIC MUD	2532	2508.2

FLUID SAMPLER DATA

ORIGINAL

CONFIDENTIAL

Ticket No.: 7110 Date: 5/6/94
 Company: CODY ENERGY
 Lease: BOB WHITE #15-1 Test No.: 2
 County: COMANCHE Sec.: 15 Twp.: 34S Rng.: 20W

SAMPLER RECOVERY

Gas
 Oil SCUM
 Mud 3500
 Water
 Other
 Pressure 850
 TOTAL 3500

PIT MUD ANALYSIS

Chlorides 11000
 Resistivity 0.57 ohms@ 70 F
 Viscosity 45
 Mud Wt. 9.1
 Filtrate 8.6
 Other

SAMPLER ANALYSIS

Resistivity 0.56 ohms@ 70 F
 Chlorides 11000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

ORIGINAL
CONFIDENTIAL

Well Name BOB WHITE #15-1 Test No. 3 Date 5/9/94
Company CODY ENERGY Zone VIOLA
Address 7555 E HAMPDEN AVE-#600 DENVER CO 80231 Elevation 1768 KB
Co. Rep./Geo. CHUCK EMERSON Cont. H-40 DRLG RIG #2 Est. Ft. of Pay 20
Location: Sec. 15 Twp. 34S Rge. 20W Co. COMANCHE State KS

Interval Tested 6010-6111 Drill Pipe Size 4.5" XH
Anchor Length 101 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 6005 Drill Collar - 2.25 Ft. Run 559
Bottom Packer Depth 6010 Mud Wt. 8.9 lb/Gal.
Total Depth 6111 Viscosity 44 Filtrate 9.4

Tool Open @ 6:05 AM Initial Blow STRONG BLOW-BOTTOM OF BUCKET AS TOOL OPENED
GAS TO SURFACE IN 4 MINUTES
Final Blow GAS TO SURFACE AS TOOL OPENED
OIL TO SURFACE IN 25 MINUTES-DROPPED BAR

Recovery - Total Feet 51 BL Flush Tool? NO

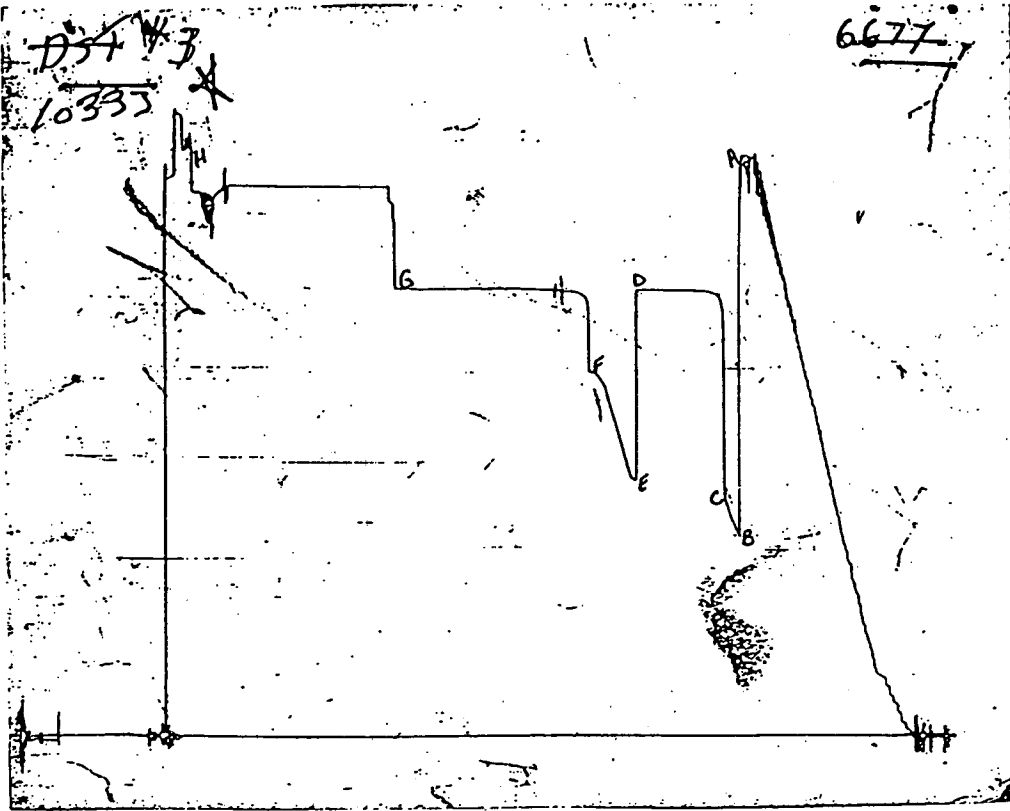
Rec. 90 Feet of MUDDY WATER- 70% WTR/ 30% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 140 °F Gravity 41 °API @ 63 °F Corrected Gravity 40.8 °API
RW 0.113 @ 80 °F Chlorides 150000 ppm Recovery Chlorides 7600 ppm System

(A) Initial Hydrostatic Mud 2913.2 PSI AK1 Recorder No. 13337 Range 3975
(B) First Initial Flow Pressure 1020.4 PSI @ (depth) 6013 w / Clock No. 27475
(C) First Final Flow Pressure 1188.5 PSI AK1 Recorder No. 10333 Range 4050
(D) Initial Shut-in Pressure 2267.2 PSI @ (depth) 6108 w / Clock No. 14389
(E) Second Initial Flow Pressure 1285.8 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 1843.6 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 2275.3 PSI Initial Opening 15 Final Flow 30
(H) Final Hydrostatic Mud 2753.1 PSI Initial Shut-in 60 Final Shut-in 135

Our Representative ROBERT COLLINS

CHART PAGE



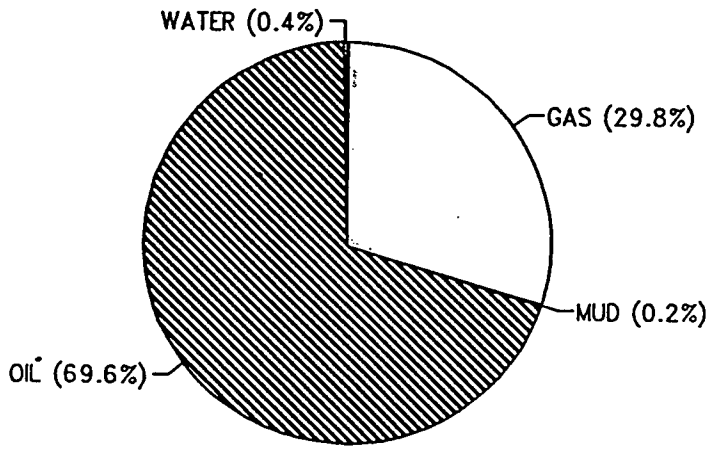
This is an actual photograph of recorder chart #10333

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2936	2913.2
(B) FIRST INITIAL FLOW PRESSURE	1006	1020.4
(C) FIRST FINAL FLOW PRESSURE	1180	1188.5
(D) INITIAL CLOSED-IN PRESSURE	2244	2267.2
(E) SECOND INITIAL FLOW PRESSURE	1241	1285.8
(F) SECOND FINAL FLOW PRESSURE	1837	1843.6
(G) FINAL CLOSED-IN PRESSURE	2275	2275.3
(H) FINAL HYDROSTATIC MUD	2793	2753.1

CALCULATED RECOVERY ANALYSIS

DST	3		TICKET #		6677					
SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD		
		%	FEET	%	FEET	%	FEET	%	FEET	
DRILL 1	5552	30	1665.6	70	3886.4	0	0	0	0	
PIPE 2			0		0		0		0	
3			0		0		0		0	
4			0		0		0		0	
5			0		0		0		0	
6			0		0		0		0	
WEIGHT 1			0		0		0		0	
PIPE 2			0		0		0		0	
3			0		0		0		0	
4			0		0		0		0	
DRILL 1	469	30	140.7	70	328.3	0	0	0	0	
COLLAR 2	90		0		0	70	63	30	27	
3			0		0		0		0	
4			0		0		0		0	
5			0		0		0		0	
TOTAL	6111		1806.3		4214.7		63		27	

		HRS OPEN	BBL/DAY
BBL OIL=	56.869995	*	0.75 1819.8398
BBL WATER=	0.30807	*	9.85824
BBL MUD=	0.13203		
BBL GAS =	24.372855		



FLUID SAMPLER DATA

Ticket No.: 6677

Date: 5/9/94

Company: CODY ENERGY

Lease: BOB WHITE #15-1

Test No.: 3

County: COMANCHE

Sec.: 15

Twp.: 34S

Rng.: 20W

SAMPLER RECOVERY

Gas 2000

Oil 2000

Mud

Water

Other

Pressure 1750

TOTAL 4000

PIT MUD ANALYSIS

Chlorides 7600

Resistivity ohms@ F

Viscosity 44

Mud Wt. 8.9

Filtrate 9.4

Other

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity 41 corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

GAS VOLUME REPORT

ORIGINAL

CODY ENERGY

~~CONFIDENTIAL~~

BOB WHITE #15-1

DST # 3

MIN	PSIG	ORIFICE	MCF/D	MIN	PSIG	ORIFICE	MCF/D
5	4	1.25	480	10	8	0.75	40
10	4	1.25	480	OIL TO SURFACE IN 25 MINUTES			
15	3.5	1.25	445				

Remarks: GTS IN 4 MINUTES - GAS WILL BURN

CONFIDENTIAL

ORIGINAL

Phone 913-483-2627, Russell, KS
Phone 316-793-5861, Grant Bond, KS

Phone 913-625-5516, Hays, KS
Phone 913-672-3471, Oukley, MS

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

ALLIED CEMENTING CO., INC.

6321

Home Office P. O. Box 31

Russell, Kansas 67665

NEW WELL

Date	4-29-94	Sec.	15	Twp.	34	Range	20	Called Out	4-28-94 9:30 PM	On Location	4-29-94 12:00 AM	Job Start	5:00 AM	Finish	5:30
Lease	Bob White	Well No.	15-1	Location				PROTECTION 55-1/2 W-25-1/5		County	COMANCHE	State	KANSAS		

Contractor	H-40 DRILLING RES #2	
Type Job	SURFACE CSG.	
Hole Size	12 1/4	T.D. 70
Csg.	8 5/8 24	Depth 708
Tbg. Size		Depth
Drill Pipe		Depth
Tool		Depth
Cement Left in Csg.	RELEASED	Shoe Joint 44.0'
Press Max.	26 5/8	Minimum
Meas Line		Displace 42.25 BMS
Perf.	FROM CONFIDENTIAL	

Owner	Cody ENERGY	
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	H-40 DRILLING Inc.	
Street	251 N. Water Suite #10	
City	Wichita	State KS, 67202
The above was done to satisfaction and supervision of owner agent or contractor.		
Purchase Order No.		
X		
CEMENT		
AUG 26 1994		

EQUIPMENT

No.	Cementer	271	NEAL R
Pumptrk	266	Helper	CARL B
No.	Cementer		
Pumptrk		Helper	not
Bulktrk	259-251	Driver	MARK B
Bulktrk		Driver	

Amount Ordered	225SK 6 5/8 24 2% CC - 1/4" Flo Seal	
Consisting of 150SK CLASS A 2% CC - 2% GEL		
Common	296	5.75 1702.0
Poz. Mix	79	3.00 237.0
Gel.	15	9.00 135.0
Chloride	9	25.00 225.0
Quickset		
	Flo Seal - 56 #	1.10 61.60
Handling	375	1.00 375.0
Mileage	50	750.0
TOTAL	\$ 4856.22	
	Disc - 971.25	
	<u>\$ 3884.97</u>	Total 3485.6

DEPTH of Job	708'	
Reference:	1 PUMP CHARGE	430.00
	50 WILCOX ON PUMP	112.50
	1 8 5/8 Top Rubber	83.00
	408' at .39	159.12
	Total	784.62

Remarks: RAN 8 5/8 TO 708' - CEMENTED WITH 225SK LETT WATE (6 5/8 24) 2% CC - 1/4" Flo Seal Followed by 150SK CLASS A 2% CC - 2% GEL DESP. Plug TO 664' WITH 42.25 Brls FRESH H₂O - CEMENT DID CIRCULATE

Floating Equipment	
1-8 5/8 SAW TOOTH GUIDE SHOES	- 240.00
1-8 5/8 Baffle PLATE	- 105.00
1-8 5/8 CENTRALIZER	- 61.00
1-8 5/8 BASKET	- 180.00
	<u>\$ 586.00</u>

WELL DATA

FIELD _____ SEC. 15 TWP. 34 RNG. 20 COUNTY Comanche 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 6255 Total Casing TOTAL DEPTH 6600

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5 1/2	43	6249	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5-12</u> TIME <u>0700</u>	DATE <u>5-12</u> TIME <u>1145</u>	DATE <u>5-12</u> TIME <u>1642</u>	DATE <u>5-12</u> TIME <u>1915</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FOOT SHOE <u>72 KSR</u>	<u>1</u>	<u>McA...</u>
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>5 W</u>	<u>1</u>	<u>Hawco</u>
HEAD <u>P.C.</u>	<u>1</u>	<u>Hawco</u>
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Byler</u>	<u>PKR 40033</u>	<u>P. 1111 Ks</u>
<u>K. Dettler</u>	<u>52304</u>	
<u>K. B...</u>	<u>81513</u>	

RELEASED
OCT 26 1993

FROM CONFIDENTIAL

AUG 26 1994

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____
 PROP. TYPE _____ SIZE _____ LB. _____
 ACID TYPE _____ GAL. _____ % _____
 SURFACTANT TYPE _____ GAL. _____ IN _____
 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 _____ GAL.-LB. _____ IN _____
 BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN _____
 PERFPAC BALLS TYPE _____
 OTHER _____
 OTHER _____

DEPARTMENT CEMENT
 DESCRIPTION OF JOB Cement 5% Lugs
 JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
 CUSTOMER REPRESENTATIVE [Signature]
 HALLIBURTON OPERATOR Doug Dwyer COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>125</u>	<u>50/50 Poz Rom</u>	<u>...</u>	<u>3</u>	<u>2% Total Gel, 5% Salt, 5% (11/12) 9, 12.5% ...</u>	<u>1.53</u>	<u>13.2</u>
	<u>25</u>	<u>1 1/2 Poz</u>			<u>None! CEMENT USED Plugger For Repair.</u>		

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 21 REASON By Request

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 148.4
 CEMENT SLURRY: BBL.-GAL. _____
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

SEE JOB Log For DETAILS
THANK YOU Doug

JOB TYPE 5 1/2" 6.5"
 DATE 5-12-94
 LEASE ...
 WELL NO. 15-1

JOB LOG FORM 2013 R-4

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
<u>City Energy Inc</u>		<u>15-1</u>		<u>Refracture</u>		<u>5 1/2 L, 3</u>		<u>614210</u>	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	<u>0700</u>							<u>Called out BE on loc @ 1200</u>	
	<u>1145</u>							<u>ON LOC - SET UP & HAVE SERVICE</u>	
								<u>& JOB MEETING w/ CUSTOMER</u>	
								<u>NOTE: CUSTOMER DOES NOT WANT TO</u>	
								<u>BUMP CEMENT Plug on PACKER SHOE</u>	
								<u>DUE TO NOT HAVING A SHOE JOINT</u>	
								<u>CUSTOMER WISHES NOT TO HAVE A SET</u>	
								<u>SHOE DUE TO CEMENT/IRON CONTAMINATION</u>	
	<u>1232</u>							<u>START CASING TO HOLE</u>	
	<u>1542</u>							<u>CASING TO HOLE</u>	
	<u>1555</u>							<u>Hook to Rig man Pump & Pull Casing</u>	
	<u>1613</u>							<u>CIRCULATION TO SURFACE</u>	
	<u>1635</u>							<u>FINISH CIRCULATION</u>	
								<u>REMOVE CAP TO Plug CONTAINER</u>	
	<u>1636</u>							<u>DROP PACKER SHOE BALL</u>	
	<u>1638</u>							<u>LOAD TOP Plug</u>	
								<u>Hook to Holes</u>	
								<u>CEMENT AS FOLLOWS</u>	
	<u>1642</u>	<u>1.0</u>	<u>0</u>	<u>✓</u>			<u>350</u>	<u>START Pumping Head AHEAD WHILE BALL</u>	
				<u>✓</u>			<u>350</u>	<u>15 FEETING TILL HEAD</u>	
	<u>1652</u>	<u>1.0</u>	<u>10</u>	<u>✓</u>			<u>250</u>	<u>SHUT DOWN WAIT on BALL TO SET</u>	
	<u>1700</u>	<u>1.0</u>	<u>5</u>	<u>✓</u>			<u>350</u>	<u>START Pumping Head AHEAD</u>	
	<u>1706</u>	<u>0</u>	<u>15.0</u>	<u>✓</u>			<u>250</u>	<u>SHUT DOWN WAIT on BALL TO SET</u>	
	<u>1715</u>	<u>1.0</u>	<u>5</u>	<u>✓</u>			<u>350</u>	<u>START Pumping Head AHEAD</u>	
	<u>1716</u>	<u>0</u>	<u>16.0</u>	<u>✓</u>			<u>250</u>	<u>SHUT DOWN WAIT on BALL TO SET</u>	
	<u>1728</u>			<u>✓</u>				<u>CUSTOMER DECIDES TO CONTINUE Pumping</u>	
								<u>ALL PRE Fresh FLUIDS</u>	
	<u>1728</u>	<u>1.0</u>		<u>✓</u>			<u>380</u>	<u>START Pumping, Reconditioned of Fresh Head</u>	
	<u>1730</u>	<u>1.0</u>	<u>20.0</u>	<u>✓</u>			<u>380</u>	<u>Finish Pumping, Fresh Head WASH</u>	
	<u>1730</u>	<u>1.0</u>	<u>0</u>	<u>✓</u>			<u>380</u>	<u>START Pumping Superflush</u>	
	<u>1742</u>	<u>1.0</u>	<u>18.0</u>	<u>✓</u>			<u>350</u>	<u>Finish Pumping Superflush</u>	
	<u>1748</u>	<u>1.0</u>	<u>0</u>	<u>✓</u>			<u>350</u>	<u>START Pumping Fresh Head SPILL</u>	
	<u>1749</u>	<u>3.0</u>	<u>3.0</u>	<u>✓</u>			<u>1200</u>	<u>RELEASE Pump RATE - BALL SETS PACKER</u>	
	<u>1750</u>	<u>5.0</u>	<u>10.0</u>	<u>✓</u>			<u>200</u>	<u>Finish Head Behind</u>	
	<u>1750</u>		<u>0</u>	<u>✓</u>			<u>100</u>	<u>START mixing CEMENT</u>	
	<u>1755</u>		<u>0</u>	<u>✓</u>			<u>380</u>	<u>START Pumping CEMENT</u>	
								<u>CONT.</u>	

FROM CONFIDENTIAL
 AUG 25
 CONFIDENTIAL

5/28/14



HALLIBURTON

ORIGINAL

DATE 5-12-94

JOB LOG FORM 2013 R-4

CUSTOMER *W.D. Eubly Inc* WELL NO. *15-1* LEASE *D.B. WHITE* JOB TYPE *5 1/2 L.S* TICKET NO. *614/210*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								<i>CONT:</i>
	<i>1801</i>		<i>34.0</i>	<i>-</i>	<i>-</i>			<i>FINISH MIXING CEMENT</i>
				<i>-</i>	<i>-</i>		<i>325</i>	<i>WASH OUT PUMP & LINES</i>
								<i>RELEASE PLUG</i>
	<i>1807</i>	<i>8.0</i>	<i>0</i>	<i>-</i>	<i>-</i>		<i>300</i>	<i>START DISPLACEMENT</i>
		<i>8.0</i>	<i>85.0</i>	<i>-</i>	<i>-</i>		<i>400</i>	<i>LOSS OF PSI 400 > 125 PSI</i>
		<i>4.0</i>	<i>120.0</i>	<i>-</i>	<i>-</i>		<i>180</i>	<i>PRESSURE STARTING BACK UP</i>
								<i>(NOTE: SLOWED RATE @ 1000 BBL)</i>
	<i>1830</i>	<i>4.0</i>	<i>148.5</i>	<i>-</i>	<i>-</i>		<i>300</i>	<i>FINAL RATE & PRESSURE</i>
								<i>NOTE: DIDN'T BUMP PLUG</i>
	<i>1915</i>							<i>JOB COMPLETE</i>
								<i>THANK YOU</i>
								<i>CALL AGAIN</i>
								<i>DOWN</i>
								<i>RUN 7</i>
								<i>ET KEEP</i>
								<i>[Signature]</i>
								RELEASED
								001 2 6 1994
								FROM CONFIDENTIAL
								CONFIDENTIAL
								AUG 26 1994
								AUG 2 8
								CONFIDENTIAL

WELL DATA

FIELD _____ SEC 15 TWP 34.5 RNG 20W COUNTY Comanche STATE KS

FORMATION NAME 1219 TYPE Sand NEW USED _____ WEIGHT 15.5 SK SIZE 0 FROM 0 TO 6250 MAXIMUM PSI ALLOWABLE _____

FORMATION THICKNESS _____ FROM _____ TO _____ CASING _____ LINER _____ TUBING 2 7/8 0 6200 Retainer

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

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

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____ PERFORATIONS _____

PACKER TYPE ARROW Retainer SET AT 6200 PERFORATIONS _____

BOTTOM HOLE TEMP _____ PRESSURE _____ PERFORATIONS _____

MISC. DATA _____ TOTAL DEPTH _____ PERFORATIONS _____

JOB DATA

CALLER OUT <u>5-25-94</u>	ON LOCATION <u>5-25-94</u>	JOB STARTED <u>5-25-94</u>	JOB COMPLETED <u>5-25-94</u>
DATE _____	DATE _____	DATE _____	DATE _____
TIME <u>07:30</u>	TIME <u>07:00</u>	TIME <u>07:30</u>	TIME <u>13:30</u>

TOOLS AND ACCESSORIES

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

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>G. Bryan</u> <u>85816</u>	<u>79601</u>	<u>PRATT KS</u>
<u>B. Mouser</u> <u>82463</u>	<u>53168</u>	<u>Pump Trk</u>
<u>L. Garner</u> <u>62723</u>	<u>4413</u>	<u>Oil K</u>

RELEASED
OCT 26 1993
AUG 20 1994
FROM CONFIDENTIAL

MATERIALS

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

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

PROP. TYPE _____ SIZE _____ LB _____

ACID TYPE _____ GAL _____ % _____

SURFACTANT TYPE _____ GAL _____ IN _____

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 _____ GAL _____ IN _____

BLOCKING AGENT TYPE _____ GAL-LB _____

PERFPAC BALLS TYPE _____ QTY _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Squeeze Perf's through Cement Retainer

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Mark Pinner

HALLIBURTON OPERATOR Alan Bryan COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	25	Premium	B	752	Halad-322	1.06	16.4
2	25	Premium	B	757	Halad-322	1.06	16.4
	100	Premium	B	100+		1.06	16.4

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRES LUSH: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM 1000 LOAD & BKDN: BBL-GAL 85 PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISP: BBL-GAL 35.9, 35.9

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL 4.7 + 4.7

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL-GAL _____

ORDERED _____ AVAILABLE _____ USED _____ REMARKS Grandy water down Annulus while Running Job

TREATING _____ DISPL _____ OVERALL _____

FEET 10 REASON Arrow Retainer

Job Type Squeeze
 Date 5-25-94
 Well No. #15-1
 Lease Bob White
 Energy Evergy

JOB LOG FORM 2013 R-3

CUSTOMER		WELL NO.	LEASE	JOB TYPE		TICKET NO.		
Cody Energy		15-1	Bob White	Squeeze		614303		
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0700							ON Location
	0730							Start water Down Annulus via Water Truck 10bbl To Load
	0743		4					Load Tubing
	0744	2				830		Take Injection Rate
	0747					-		Shut Down
	0750					-		Mix 25SKS Cement .75% H ₂ O
	0759	2	4.7			850		Pump Down hole
	0805					-		Wash out Pump/Lines
	0807	2	0			500		Start Displacement
	0822	2	31.2			450		Cement on Bottom
	0823	1.0	33.0			200		Decrease Rate
	0824		34.4			350		Shut Down 34.4 bbl out
	0830		35.4			500		Stage in 1bbl 35.4 bbl out
	0845		35.65			600		Stage in 1/4bbl 35.65 bbl out
	0850					600		Shut In well
	0855					-		Wash up Truck AUG 26 1994
	0858					900		PSI UP
	0914	.5	5.0			800		over Displace Cement
						-		String out on Tool
	0950		4.7			-		Mix 25SKS Prem .75% H ₂ O
	1000	2.0	30			1250		Spot to 5bbl From Perfs
	1015					-		String into Tool
	1016	.5	35.9			300		Displace Cement To Tool
	1026		36.5			300		Cement on Perfs
	1030		39.0			450		Shut Down
	1048		39.2			900		PSI UP
	1100		39.5			500		Increase PSI Bleed off
	1110		40.0			1000		PSI UP slow Bleed off
	1114		40.0			-		String out of Tool +10'
	1129	3.0	85.0			300		Reverse out 1/2bbl cement
	1215							Wash up Pull Tubing
	1300							Job Complete
								Thanks
								Glen B. H.

CONFIDENTIAL



**The Western Company
of North America**

INVOICE NO. 448118	OUR RECEIPT NO. 268422	DATE 05/31/94
YOUR ORDER NO.		
18741	1235	

REMIT TO: P.O. BOX 911543
DALLAS, TX 75391-1543

CODY ENERGY, INC.
731 WEST WADLEY AVE.
SUITE 0-114
MIDLAND TX 79705

SERVICES FROM OUR STATION AT WOODWARD CEMENTING	OUR ENGINEER CANADAY	SIGNED FOR YOU BY PINNICK
FOR SERVICING WELL NAME WELLS <i>16 BOBWHITE #15-1</i>	COUNTY COMANCHE	STATE KS 15

FEDERAL I.D. NO. C 75-0763484

PRODUCT CODE	DESCRIPTION	UNIT OF MEASURE	QUANTITY	LIST PRICE/UNIT	GROSS AMOUNT	PERCENT DISC.	NET AMOUNT
J3915	MILEAGE, AUTO/PICK-UP/TREATING VAN	MILE	45.0	1.550	69.75	20.00	55.80 *
J3905	MILEAGE, HEAVY VEHICLE, PER UNIT	MILE	45.0	2.900	130.50	20.00	104.40 *
J4015	BULK MATERIAL DELIVERY, DRY	TONMI	212.0	.960	203.52	20.00	162.82 *
F0645	CEMENT THRU TUBING, 6001 - 6500 FT	6HRS	1.0	2150.000	2150.00	20.00	1,720.00 *
M1005	BULK MATERIALS SERVICE CHARGE	CU FT	100.0	1.400	140.00	20.00	112.00 *
P432H	PREMIUM CMT, WOODWARD, OK	SACK	25.0	8.250	206.25	20.00	165.00 *
	SUB TOTAL				2900.02		2,320.02
96200	KANSAS SALES TAX 4.9%						113.69

FROM CONFIDENTIAL

AUG 2 6 1995

RELEASED

AUG 26 1994

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AUG 2 5

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ORIGINAL

