

CONFIDENTIAL

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

API NO. 15- 033-20910-0000 **ORIGINAL**

County Comanche

NW - NE - NW - Sec. 3 Twp. 33 S Rge. 19 X W

560 Feet from S (circle one) Line of Section

1650 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Webster Well # 3-3

Field Name Triple Overtime

Producing Formation Arbuckle

Elevation: Ground 1932 Ft. KB 1945 Ft.

Total Depth 6200 Ft. PBTD 6156 Ft.

Amount of Surface Pipe Set and Cemented at 660 Ft. Feet

Multiple Stage Cementing Collar Used? Yes X 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 1 8-29-96
(Data must be collected from the Reserve Pit)

Chloride content 6000 ppm Fluid volume 11,000 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name Samuel Gary Jr. & Associates

Lease Name Webster License No. 3882

SE Quarter Sec. 3 Twp. 33 S Rng. 19 E W

County Comanche Docket No. 185 291M

Operator: License # 3882

Name: Samuel Gary Jr. & Assoc.

Address 1670 Broadway, Suite 3300

City/State/Zip Denver, CO 80202

Purchaser: Koch

Operator Contact Person: Tom Fertal

Phone (303) 831-4673

Contractor: Name: Duke Drilling

License: 5929

Wellsite Geologist: Dale Padgett (MUD ENGINEER)

Designate Type of Completion
 New Well Re-Entry Workover

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

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SMD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SMD or Inj?) Docket No. _____

4/26/96 5/9/96 5/25/96
Spud Date Date Reached TD Completion Date

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 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 _____

Title President Date 8/20/96

Subscribed and sworn to before me this 20th day of August 1996.

Notary Public Lynnis O'Shea

Date Commission Expires 8-24-98

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

AUG 21 1996
8-21-96
CONSERVATION DIVISION
WICHITA, KS
Form ACD-1 (7-90) 6 1996
FROM CONFIDENTIAL
K.C.C. Wichita
15/08/96 10:28
316 337 6211 Fax: 316-337-6211

Operator Name Samuel Gary Jr. & Assoc. Lease Name Webster Well # 3-3

Sec. 3 Twp. 33S Rge. 19 East West Comanche

CONFIDENTIAL

ORIGINAL

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.)
Samples Sent to Geological Survey
Cores Taken
Electric Log Run (Submit Copy.)

List All E.Logs Run: ARRAY INDUCTION
BHC LONG SPACED SONIC
COMP. NEUTRON-PHOTO DENSITY
MICRO-RESISTIVITY

Log Formation (Top), Depth and Datum Sample

Table with 3 columns: Name, Top, Datum. Rows include Stone Corral, Wabaunsee, Heebner, Lansing, Stark, Cherokee, Top Mississippian, Viola, Simpson, Arbuckle.

CASING RECORD

Report all strings set-conductor, surface, intermediate, production, etc.
New Used surface, new production

Table with 8 columns: 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. Rows include conductor, surface, production.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Table with 5 columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives. Rows include Perforate, Protect Casing, Plug Back TD, Plug Off Zone.

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Table with 3 columns: 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. Includes 'FROM CONFIDENTIAL' stamp.

TUBING RECORD Size 2-3/8" Set At 6152 Ft. Packer At none Liner Run Yes No

Date of First, Resumed Production, SMD or Inj. 5/25/96 Producing Method Flowing Pumping Gas Lift Other (Explain)

Table with 8 columns: Estimated Production Per 24 Hours, Oil 180 Bbls., Gas -0- Mcf, Water -0- Bbls., Gas-Oil Ratio -0-, Gravity 48

Disposition of Gas: Vented Sold Used on Lease Open Hole Perf. Dually Comp. Production Interval 614-49 Ft. METHOD OF COMPLETION

AUG 21 1996

8-21-96

CONSERVATION DIVISION WICHITA, KS

15/08/96 K.C.C. Wichita 10:29 316 337 6211 Fax: 316-337-6211

Aug 15 '96 12:08 P.03/03

TRILOBITE TESTING L.L.C.

CONFIDENTIAL

ORIGINAL

OPERATOR : SAMUEL GARY JR & ASSOC.

DATE 5-2-96

WELL NAME: WEBSTER #3-3

KB 1945.00 ft

TICKET NO: 8722 DST #1

LOCATION : 3-33-19

GR 1932.00 ft

FORMATION: MARMATON

INTERVAL : 4920.00 To 4943.00 ft

TD 4943.00 ft

TEST TYPE: CONVENTIONAL

15-033-20910

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	13754		3024			PF Fr. 2055 to 2105 hr
SI 90 Range(Psi)	4000.0	0.0	4995.0	0.0	0.0	IS Fr. 2105 to 2235 hr
SF 105 Clock(hrs)	18		ALPIN			SF Fr. 2235 to 2420 hr
F8 210 Depth(ft)	4940.0	0.0	4922.0	0.0	0.0	FS Fr. 2420 to 0350 hr

	Field	1	2	3	4
A. Init Hydro	2451.0	0.0	2443.0	0.0	0.0
B. First Flow	49.0	0.0	14.0	0.0	0.0
B1. Final Flow	49.0	0.0	20.0	0.0	0.0
C. In Shut-in	1866.0	0.0	1863.0	0.0	0.0
D. Init Flow	68.0	0.0	17.0	0.0	0.0
E. Final Flow	68.0	0.0	26.0	0.0	0.0
F. Fl Shut-in	1866.0	0.0	1859.0	0.0	0.0
G. Final Hydro	2431.0	0.0	2410.0	0.0	0.0
Inside/Outside	I		O		

T STARTED 1915 hr
T ON BOTM 2050 hr
T OPEN 2055 hr
T PULLED 0350 hr
T OUT 0615 hr

TOOL DATA-----

Tool Wt. 2000.00 lbs
Wt Set On Packer 30000.00 lbs
Wt Pulled Loose 80000.00 lbs
Initial Str Wt 66000.00 lbs
Unseated Str Wt 660000.00 lbs
Bot Choke 0.75 in
Hole Size 7.88 in
D Col. ID 2.25 in
D. Pipe ID 3.70 in
D.C. Length 186.00 ft
D.P. Length 4724.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
5.00 ft of DRILLING MUD W/SHOW OF OIL IN TOOL
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF-STRONG-BOTTOM OF BUCKET IN 2 MIN.
ISI-BLED OFF BLOW-NO BLOW BACK

FF-STRONG-BOTTOM OF BUCKET AS SOON AS TO
OL OPENED.GTS IN 40 MIN.(GAUGED)
FSI-BLED OFF BLOW-NO BLOW BACK.

SAMPLES: GAS SAMPLE TAKEN
SENT TO:

MCC
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CONFIDENTIAL
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OCT 6 1998

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AUG 21 1996

CONSERVATION DIVISION
WICHITA, KS

Test Successful: Y

MUD DATA-----

Mud Type CHEM
Weight 9.30 lb/cf
Vis. 46.00 S/L
W.L. 12.80 in3
F.C. 0.00 in
Mud Drop N

Amt. of fill 0.00 ft
Btm. H. Temp. 135.00 F
Hole Condition GOOD
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester DAN BANGLE
Co. Rep. LARRY BENEDICK
Contr. DUKE
Rig # 7
Unit #
Pump T.

03/05/96 12:53 303 831 9012

05.03.98 02:01PI *SAMUEL GARY JR& S SOC

303 831 9012

POS

MAY-03-98 FRI 08:23 AM

P.04

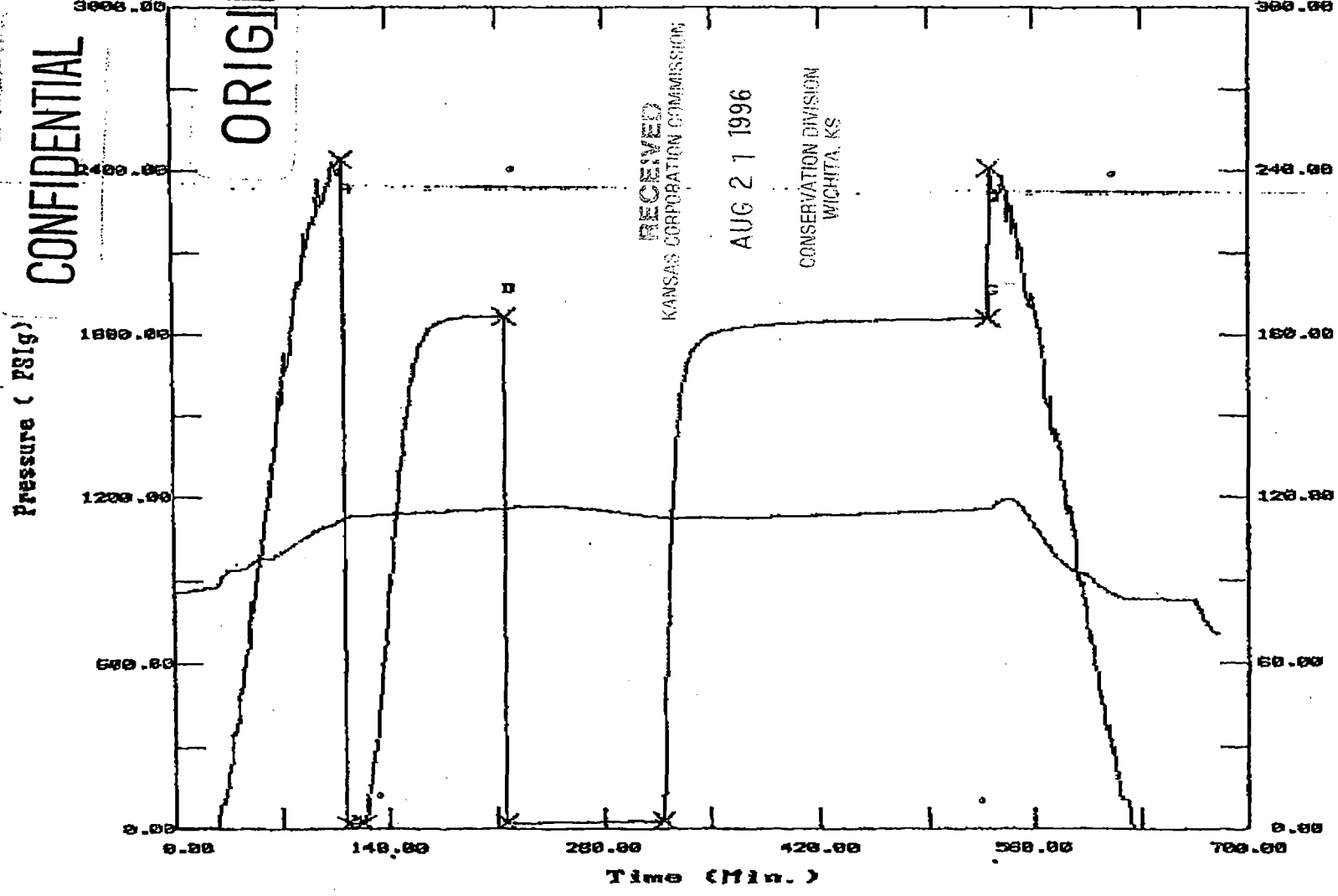
TEST HISTORY

TK38722 DST#1 WEBSTER #3-3 SAM GARY

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KANSAS CORPORATION COMMISSION

	t (Min.)	PK PSig)
A:	0.00	2442.79
B:	0.00	14.00
C:	10.00	19.91
D:	92.00	1862.98
E:	0.00	17.43
F:	103.00	26.46
G:	212.00	1659.37
H:	0.00	2418.80

CONFIDENTIAL ORIGINAL



Temperature (DEG F)

RELEASED

OCT 6 1998

FROM CONFIDENTIAL

TRILLOBITE TESTING L.L.C.

CONFIDENTIAL

OPERATOR : SAMUEL GARY JR. & ASSOC.
WELL NAME : WEBSTER #3-3
LOCATION : 3-33-19
INTERVAL : 5826.00 To 5842.00 ft

DATE 5-6-96
KB 1945.00 ft
GR 1932.00 ft
TD 5842.00 ft

TICKET NO: 8723 DST #2
FORMATION: VIOLA
TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4
PF 10	13754		3024		
SI 45	Range(Psi)	4000.0	4995.0	0.0	0.0
SE 60	Clock(hrs)	18	Alpin		
FS 180	Depth(ft)	5839.0	5828.0	0.0	0.0

TIME DATA

PF	Fr.	to	hr
IS	0610	0655	hr
SF	0655	0755	hr
FS	0755	1055	hr

	Field	1	2	3	4
A. Init Hydro	2827.0	0.0	2838.0	0.0	0.0
B. First Flow	1186.0	0.0	1177.0	0.0	0.0
Bi. Final Flow	1186.0	0.0	1250.0	0.0	0.0
C. In Shut-in	2168.0	0.0	2177.0	0.0	0.0
D. Init Flow	1216.0	0.0	1154.0	0.0	0.0
E. Final Flow	1446.0	0.0	1463.0	0.0	0.0
F. Fl Shut-in	2178.0	0.0	2176.0	0.0	0.0
G. Final Hydro	2817.0	0.0	2752.0	0.0	0.0
Inside/Outside	I		O		

T STARTED	0345	hr
T ON BOTM	0558	hr
T OPEN	0600	hr
T PULLED	1055	hr
T OUT	1325	hr

TOOL DATA

Tool Wt.	2000.00	lbs
Wt Set On Packer	30000.00	lbs
Wt Pulled Loose	80000.00	lbs
Initial Str Wt	77000.00	lbs
Unseated Str Wt	77000.00	lbs
Bot Choke	0.75	in
Hole Size	7.88	in
D Col. ID	2.25	in
D. Pipe ID	3.80	in
D.C. Length	186.00	ft
D.P. Length	5625.00	ft

RECOVERY
Tot Fluid 30.00 ft of 30.00 ft in DC and 0.00 ft in DP
CONDENSATE

30.00	ft	of
0.00	ft	of
0.00	ft	of
0.00	ft	of
0.00	ft	of
0.00	ft	of
0.00	ft	of
0.00	ft	of

ORIGINAL

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

IF-STRONG BOTTOM OF BUCKET IN 10 SEC.
GTS IN 2 MIN (GAUGED)

FF-STRONG BOTTOM OF BUCKET AS SOON AS TO
OL OPENED

SAMPLES: GAS SAMPLE TAKEN
SENT TO: LIBERAL

Test Successful: Y

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CONSERVATION DIVISION
WICHITA, KS

MUD DATA

Mud Type	CHEM	
Weight	9.10	lb/cf
Vis.	48.00	S/L
W.L.	8.00	in ³
F.C.	0.00	in
Mud Drop N		
Amt. of fill	0.00	ft
Btm. H. Temp.	131.00	F
Hole Condition	GOOD	
% Porosity	0.00	
Packer Size	6.75	in
No. of Packers	2	
Cushion Amt.	0.00	
Cushion Type		
Reversed Out N		
Tool Chased N		
Tester	DAN BANGLE	
Co. Rep.	LARRY BENEDICK	
Contr.	DUKE	
Rig #		
Unit #		
Pump #		

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OCT 6 1996

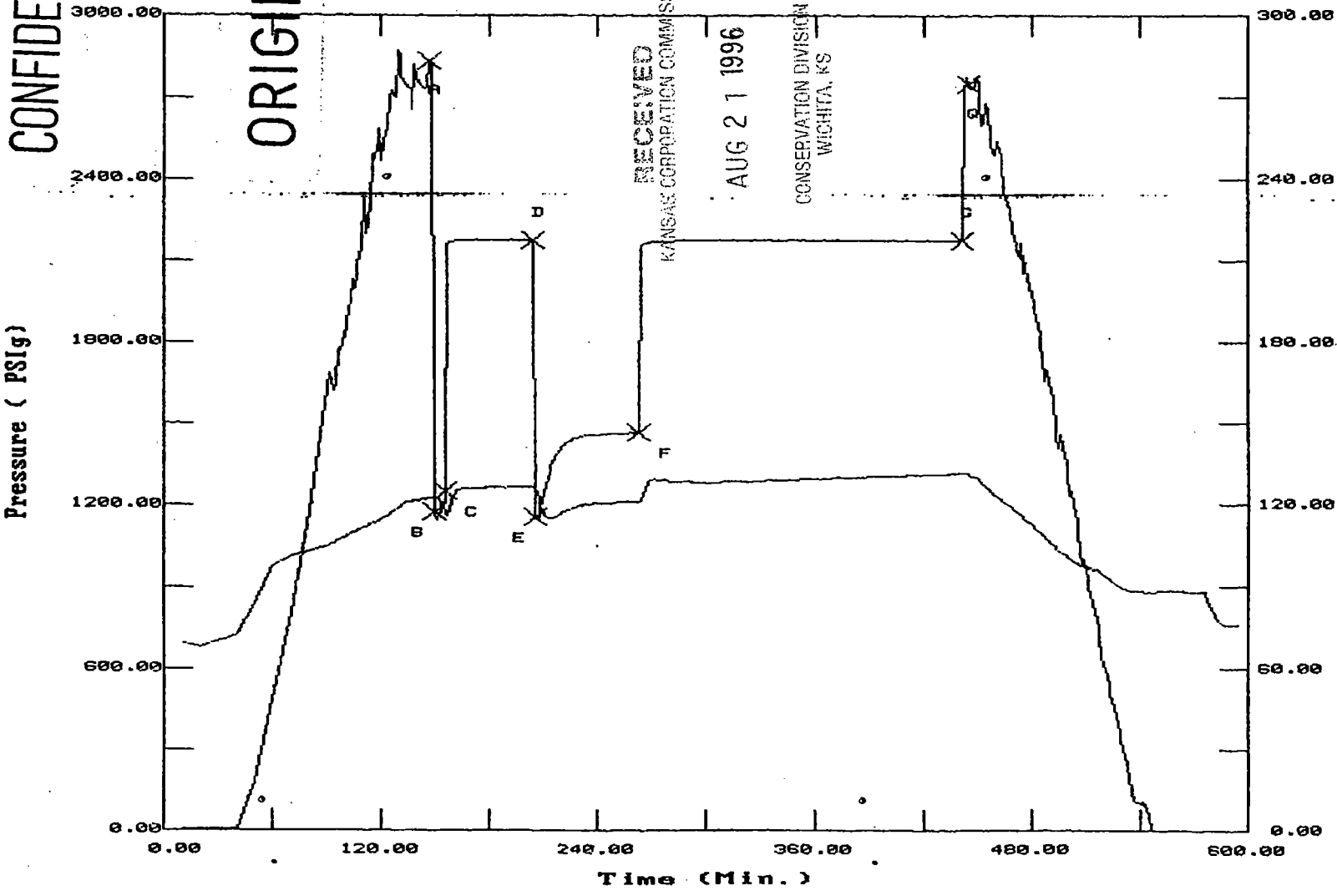
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TEST HISTORY

TK# 8723 DST#2 WEBSTER #3-3 SAM GARY

CONFIDENTIAL

ORIGINAL



	t (Min.)	Flag Points PK (PSI)
A:	0.00	2938.84
B:	0.00	1176.66
C:	6.00	1250.44
D:	49.00	2176.94
E:	0.00	1153.79
F:	58.00	1462.83
G:	179.00	2176.24
Q:	0.00	2752.79

CONFIDENTIAL
AUG 19 1996

Temperature (DEG F)

RELEASED
OCT 6 1998
FROM CONFIDENTIAL

TRILOBITE TESTING L.L.C.

CONFIDENTIAL

OPERATOR : Sam Gary Jr & Associates
WELL NAME : 03-3 Webster
LOCATION : 33 1/2 W Comanche KS
INTERVAL : 6108.00 To 6158.00 ft

DATE 5-08-96
KB 1845.00 ft
GR 1832.00 ft
TD 6199.00 ft

TICKET NO: 8724 DST #3
FORMATION: Arbuckle
TEST TYPE: CONV. STRADDLE

RECORDER DATA

mins	Field	1	2	3	4	TIME DATA
10	1375.0	1375.4	3024			STARTED 2218 hr
60	4000.0	4000.0	4985.0	0.0	0.0	ON BOTM 2215 hr
6	18hr	18hr	18hr			OPEN 0718 hr
120	6148.0	6148.0	6110.0	0.0	0.0	PULLED 0734 hr
						OUT 0800 hr

	Field	1	2	3	4
A. Init Hydro	1908.0	0.0	0.0	0.0	0.0
B.1. First Flow	1918.0	0.0	1975.0	0.0	0.0
Final Flow	1926.0	0.0	2142.0	0.0	0.0
in Shut-in	2058.0	0.0	2257.0	0.0	0.0
Init Flow	2097.0	0.0	2276.0	0.0	0.0
Final Flow	2117.0	0.0	2318.0	0.0	0.0
in Shut-in	2135.0	0.0	2807.0	0.0	0.0
G. Final Hydro	2735.0	0.0			
Inside/Outside	1	1	0		

T STARTED 2018 hr
T ON BOTM 2215 hr
T OPEN 0718 hr
T PULLED 0734 hr
T OUT 0800 hr

TOOL DATA

Tool Wt.	2800.00	lbs
Wt Set On Packer	20000.00	lbs
Wt Pulled Loose	24000.00	lbs
Initial Str Wt	83000.00	lbs
Unseated Str Wt	110000.00	lbs
Bot Choke	0.75	in
Hole Size	2.25	in
D Col. ID	2.25	in
D. Pipe ID	1.80	in
D.C. Length	187.00	ft
D.P. Length	5930.00	ft

RECOVERY
6075.00 clean gassy oil approx. 70% gas 30% oil
6075.00 ft of 187.00 ft in DC and 5888.00 ft in DP

ORIGINAL

SALINITY 0.00 P.P.M. A.P.I. Gravity 47.00

BLOW DESCRIPTION

IF- very strong bottom of bucket in 15 seconds gas to surface in 7 minutes. Gauged 219,000 cfd

ISI- strong never would bleed off.

FF- strong had stream of oil to surface in 5 minutes closed tool in at 6 minutes

FSI- strong flowing oil & gas to tank
SAMPLES: gas caught beginning of Final Flow
SENT TO: Thurmond McGlodglin

Test Successful: Y

MUD DATA

Mud Type	Chemical	lb/cf
Weight	9.40	lb/cf
Vis.	57.00	s/l
W.P.	8.00	lbs
F.C.	0.00	in
Mud Drop N		
Amt. of fill	0.00	ft
Btm. H. Temp.	142.00	F
Hole Condition	good	
% Porosity	9.00	
Packer Size	6.75	in
No. of Packers	3	
Cushion Amt.	0.00	
Cushion Type	none	
Reversed Out Y		
Tool Chased N		
Tester	Paul Simpson	
Co. Rep.	Larry Benedick	
Contr.	Duke	
Rig #		7
Unit #		
Pump T.		

ALL
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AUG 21 1996

CONSERVATION DIVISION
WICHITA, KS

RELEASED

OCT 6 1998

FROM CONFIDENTIAL

2117 Psi @ 6148'

TEST HISTORY

8724 Sam Gary Jr & Associates Webster #3-3

Time (Min.)	Pressure (PSig)
H: 0.00	3025.56
B: 0.00	1975.29
C: 9.00	2142.66
D: 61.00	2317.76
E: 0.00	2258.63
F: 5.00	2276.44
G: 179.00	2318.22
Q: 0.00	2806.60

RECEIVED
KANSAS CORPORATION COMMISSION

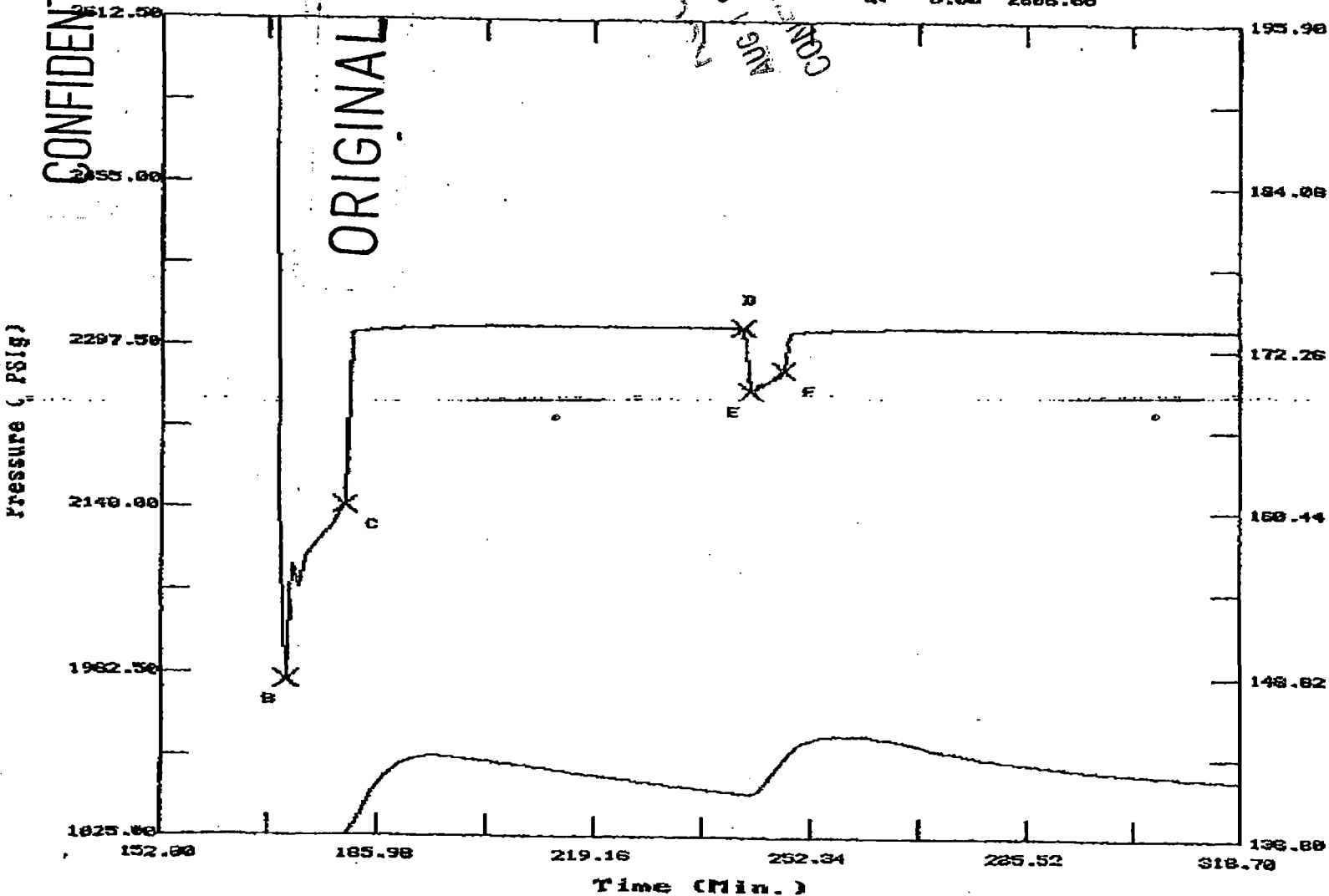
AUG 21 1996

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

ORIGINAL

CONFIDENTIAL
AUG 19 1996



RELEASED

OCT 6 1998

FROM CONFIDENTIAL

05.09.98 01:25P
SAMPLER GARY JR ASSOC POS
JUL 20 1998

Conservation Division

TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 6/27/96

Company: Samuel Gary Lease Well No. 3-3

County: Comanche Location: 560 FN 1450 FN (NW NE 1/4) Section: 3 Township: T33S Range: R19W Acres: 219.4

Field: Triple Overline Reservoir: Arbuckle Pipeline Connection: Koch

Completion Date: 5/28/96 Type Completion (Describe): Single Plug Back T.D. Packer Set At

Production Method: Type Fluid Production: OIL API Gravity of Liquid/Oil: 48.3 @ 60°

Flowing Pumping Gas Lift Casing Size: 5 1/2" Weight: 15.5 I.D.: Set At Perforations: 6199 6112-16, 18-20, 36-39, 6144-49

Tubing Size: 2 3/8 Weight: I.D.: Set At Perforations: To

Pretest: Starting Date: 6/27/96 Time: 11:00 Ending Date: 6/28/96 Time: 11:00 Duration Hrs: 24

Test: Starting Date: 6/27/96 Time: 11:00 Ending Date: 6/28/96 Time: 11:00 Duration Hrs: 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size			
Casing: <input checked="" type="checkbox"/> 500	Tubing: <input checked="" type="checkbox"/> 400					8	64		
Ebbs./In.	Tank	Starting Gauge			Ending Gauge			Net Prod. Ebbs.	
1.67	Size Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:									
Test: <input checked="" type="checkbox"/>	66958	3	9	75.15	14	7.5	293		217.9
Test: <input checked="" type="checkbox"/>	66958	3	4 1/4	17.21	3	4 1/4	67.21		

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections				Orifice Meter range			
Pipe Taps:	Flange Taps:	Differential:	Static Pressure:				
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)	
Orifice Meter			PSIG or (Pd)				
Critical Flow Prover	No	Gas					
Orifice Well Tester							

GAS FLOW RATE CALCULATIONS (R)

Coef. (Fb)	MCFD (Fb)	Meter-Prover Press. (Psia)	Extension (Fm)	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fdv)	Chart Factor (Fc)
			$\sqrt{h_w \times P_m}$				
Gas Prod. Flow Rate (R):				Oil Prod. Ebbs./Day: 217.9	Gas/Oil Ratio (GOR) =		Cubic Ft per Ebl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 28 day of June 1996

For Offset Operator: [Signature] For State: [Signature] For Company: [Signature]



CEMENTING LOG

STAGE NO.

CONFIDENTIAL

Date: 5-9-96 District: Med. Lodge Ticket No. 6141
 Company: Sam Gary, Jr. + Associates, Inc. Duke #7
 Lease: Lechster Well No. 3-3
 County: Comanche State: KS.
 Location: Coldwater, SS-34- Field: 3-33-90
34M- E/S.

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size: 5 1/2 Type: J555 Weight: 65.5 Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight 16.60 Collars X-hole
 Open Hole: Size 7 7/8 T.D. 6200 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 42.01
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. 500 Sks Yield _____ ft³/sk Density _____ PPG
Gallons med-Clean

LEAD: Pump Time _____ hrs. Type CLASSH
50/50/2-10/FL-6/40-SEAL
 Amt. 25 Sks Yield 1.38 ft³/sk Density 13.8 PPG

TAIL: Pump Time _____ hrs. Type CLASSH
2/10%SAH-15#40-SEAL
 Amt. 400 Sks Yield 1.51 ft³/sk Density 13.8 PPG

WATER: Lead 6.0 gals/sk Tail 6.0 gals/sk Total _____ Bbls.

Pump Trucks Used 265 CARL B.
 Bulk Equip. 258 James

ORIGINAL

Float Equip: Manufacturer _____
 Shoe: Type AFU Float shoe Depth 6199'
 Float: Type Baffle Depth 6179.3'
 Centralizers: Quantity 24 Plugs Top October Btm. _____
 Stage Collars 8-Tubco Centerlizers
 Special Equip. Basket-Thread-Lok
 Displ. Fluid Type HCL water Amt. 153% Bbls. Weight 8.43 PPG
 Mud Type Chemical Weight 9.1 PPG

COMPANY REPRESENTATIVE Larry Benedick CEMENTER Larry O AUG 19 1996

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	ANNULUS	DRILL PIPE CASING	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
5:20		250	12	4	4	Pipe on Bottom. Circ w/ Rig Ann
5:23		50	4	2	2	Rig up to Cement Pump
5:25		50	2 1/2	2	2	START mud Clean.
5:45		250				Cement 153xs. Rathole
						Cement 103xs mousehole
						Cement w/ 400xs. CLASSH, 50/50
						2%Gel + 10% Salt + 1.5# 40-SEAL + .5% FL-6
6:15		300	108	4	4	Cement In. Stop Pumps.
		50	8	4	4	WASH out Pump+lines
						Release Plug.
6:20		150	10	4	4	START HCL Displacement
		150	15	4	4	Steady Rate + DST
		200	28	4	4	med Clean @ shoe
		650	40	4	4	Cement @ shoe
		900	92	4	4	PSI lift
		1000	130	4	4	DST Increase
		1000	149	3 1/2	3 1/2	Decrease Rate
7:00		1400	153 1/2	3 1/2	3 1/2	Pump Plug.
						Release PSI
						Float Held

RELEASED

OCT 6 1996

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KANSAS CORPORATION COMMISSION

AUG 27 1996

CONSERVATION DIVISION
PICHITA, KS

THANK YOU



CEMENTING LOG

STAGE NO.

CONFIDENTIAL

Date 4-26-96 District MEDICINE LODGE Ticket No. 3942
 Company SAMUEL GARY JR + ASSO. Rig Duke #7
 Lease WEBSTER Well No. 3-3
 County COMANCHE State KANSAS
 Location Coldwater 5 to Jer 3 1/4 N Field

CEMENT DATA:
 Spacer Type _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

STBBIS Fresh H₂O
 LEAD: Pump Time _____ hrs. Type A.L.W 376
CACL₂ + 1/4# FLO-SEAL Excess _____
 Amt. 225 Skys Yield 1.97 ft³/sk Density 12.7 PPG
 TAIL: Pump Time _____ hrs. Type CLASS A
26CACL₂ + 26 GEL Excess _____
 Amt. 100 Skys Yield 1.34 ft³/sk Density 15.1 PPG
 WATER: Lead 10.9 gals/sk Tail 6.5 gals/sk Total 74 Bbls

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 8 5/8 Type USED Weight 28 Collar NEW

Casing Depths: Top 20' 40' Bottom 8 5/8 660'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 662 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.624 Lin. ft./Bbl. 16.02
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Cx H Bbls/Lin. ft. 0.785 Lin. ft./Bbl. 13.605
 Cx C Bbls/Lin. ft. 2830 Lin. ft./Bbl. 3.5-3
 Perforations: From _____ ft. to _____ ft. Amt. _____

Pump Trucks Used 237
 Bulk Equip. 256/250

ORIGINAL

Float Equip: Manufacturer _____
 Shoe: Type TEX PAT Depth 660
 Float Type A.F.U INSERT Depth 44
 Centralizers: Quantity 2 Plugs Top Rubber Btm. _____
 Stage Collars _____
 Special Equip. 2 - BASKETS
 Disp. Fluid Type Fresh H₂O Amt. 38.5 Bbls. Weight 8.3 PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE HARVEY MOORE

CEMENTER Neal Reed

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
1:30						RAN 8 5/8 TO 660' CON DROP BALL FOR A.F.U INSERT PUMP BALL THROUGH - CIRCULATE RES UP TO PUMP TRK. START H ₂ O START LEAD START TAIL SLOWLY IN - SHUT DOWN RELEASE PLUG - START DEEP CEMENT TO SURFACE FINAL DEEP PSE - SLOW RATE Bump Plug RELEASE PSE - INSERT HELD
1:50						
2:00	200			5.0	5	
	200		84.0	7.0	5	
2:20	200		108.0	24.0	5	
2:22						
	100				5	
	175			25	5	
	200		35	10	3	
	500		38.5	3.5		
2:30	0					

REMARKS AUG 19 1996
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 WICHITA, KS

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