

ORIGINAL

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

Operator: License # 5988

Name: Halliburton Oil Producing Company

Address 1001 NW 63rd - Suite 250

City/State/Zip Oklahoma City, OK 73116

Purchaser:

Operator Contact Person: John Clark

Phone (405) 843-0261

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Dan Fredlund

Designate Type of Completion

New Well Re-Entry Workover

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

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

11-21-96 11-26-96 12-11-96
Spud Date Date Reached TD Completion Date

API NO. 15- 155-21405 0000

County Reno County, Kansas

NW - SW - SE Sec. 17 Twp. 22S Rgn. 7 XX

860 Feet from S/N (circle one) Line of Section

2065 Feet from E/W (circle one) Line of Section

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

Lease Name Gossage Well # 2

Field Name _____

Producing Formation Mississippi

Elevation: Ground 1597 KB 1605

Total Depth 3570' PSTD 3530'

Amount of Surface Pipe Set and Cemented at 3569 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/ _____ ct.

Drilling Fluid Management Plan ALT | 9-19-97
(Data must be collected from the Reserve Pit)

Chloride content 39000 ppm Fluid volume 1285 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: 3-28-97

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

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.

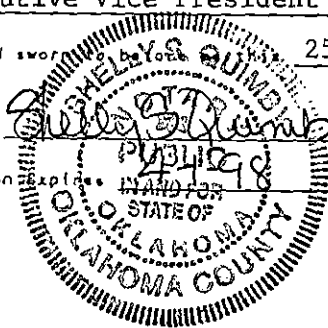
Signature John Clark

Title Executive Vice President Date 3-25-97

Subscribed and sworn to 25 day of March 19 97

Notary Public [Signature]

Date Commission Expires _____



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

Operator Name Halliburton Oil Producing Company Lease Name Gossage Well # 2

Sec. 17 Twp. 22S Rge. 7 East West
 County Reno County, Kansas

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 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	Tarkio	2098'	"b" zone none
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	2745'	Breccia zone none
List All E.Logs Run:		Lansing	2949'	Purple zone 3433'
Dual Induction		Stark Sh	3226'	BLM none
Density		Hushpuckney		Kinderhook sh 3470'
		shale	3267'	RTD 3570'
		B/KC	3328'	LTD 3568'
		Marmaton	3363'	
		Cherokee	3415'	
		Mississippi		
		Unc	3433'	

CASING RECORD <input 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
Surface	12-1/4"	8-5/8"	24#	228'	40/60 Poz	200	3%cc 2%gel
Production	7-7/8"	5-1/2"	14 & 15#	3529'	EA2	130	18%salt

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
4	3436 - 3444'		Frac w/520,000 SCF Nitrogen	3444'

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		2-3/8"	3415'	NA				
Date of First, Resumed Production, SWD or Inj.			Producing Method					
1/7/97			<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
	0		80		20		NA	NA

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 _____



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

11-21-21
11-21-21
11-21-21

BILLED ON TICKET NO.

104741

WELL DATA

FIELD _____ SEC. 17 TWP. 22S RING. 7W COUNTY RENO 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		24	8 7/8	AB	228	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>WOOD</u>	<u>1</u>	<u>Howe</u>
HEAD <u>MANIPULATOR</u>	<u>1</u>	<u>.</u>
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-21</u>	DATE <u>11-21</u>	DATE <u>11-21</u>	DATE <u>11-21</u>
TIME <u>1600</u>	TIME <u>1900</u>	TIME <u>1900</u>	TIME <u>2030</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
	<u>128</u>	<u>RECEIVED DOWN</u>
	<u>A 11-21</u>	

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. _____ 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 _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT CEMENT
DESCRIPTION OF JOB CEMENT 8 7/8 SUPS. CEMENT
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE X
HALLIBURTON OPERATOR H. CORDLEY COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>200</u>	<u>40-60 POC</u>		<u>B</u>	<u>2% CEL, 3% CE</u>	<u>1.30</u>	<u>13.9</u>

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. 13 1/2
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: (BBL) GAL. 46.3
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 20 REASON REQUEST

CUSTOMER: HALLIBURTON WELL SERVICES
LEASE: 104741
WELL NO.:
JOB TYPE: CEMENT
DATE: 11-21-21

ORIGINAL

WELL NAME: Gossage #2
COMPANY: Haliburton Oil Production
LOCATION: Sec. 17 Twp. 22s Rge. 7w
Reno County Kansas

DATE: 11-27-96

15-155-21405

TRILOBITE TESTING L.L.C.

OPERATOR: Haliburton Oil Prod.
 WELL NAME: Gossage #2
 LOCATION: 17-22s-7w Reno KS
 INTERVAL: 3417.00 To 3470.00 ft

DATE 11/25/96
 KB 1605.00 ft TICKET NO: 8883 DST #1
 GR 1597.00 ft FORMATION: MISS.
 TD 3470.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11086	11086	2350			PF Fr. 0028 to 0058 hr
SI 60	Range(Psi)	4350.0	4350.0	4995.0	0.0	0.0	IS Fr. 0058 to 0158 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0158 to 0258 hr
FS 120	Depth(ft)	3467.0	3467.0	3429.0	0.0	0.0	FS Fr. 0258 to 0458 hr

	Field	1	2	3	4	
A. Init Hydro	1717.0	1739.0	1698.0	0.0	0.0	T STARTED 2253 hr
B. First Flow	55.0	66.0	33.0	0.0	0.0	T ON BOTM 0026 hr
B1. Final Flow	55.0	52.0	34.0	0.0	0.0	T OPEN 0028 hr
C. In Shut-in	371.0	386.0	390.0	0.0	0.0	T PULLED 0458 hr
D. Init Flow	55.0	62.0	34.0	0.0	0.0	T OUT 0630 hr
E. Final Flow	76.0	72.0	41.0	0.0	0.0	
F. Pl Shut-in	481.0	474.0	492.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1750.0	1712.0	1669.0	0.0	0.0	Tool Wt. 2100.00
Inside/Outside	0	0	I			Wt Set On Packer 20000.00
						Wt Pulled Loose 60000.00
						Initial Str Wt 46000.00
						Unseated Str Wt 46000.00
						Bot Choke 0.75
						Hole Size 7.88
						D Col. ID 2.25
						D. Pipe ID 3.80
						D.C. Length 0.00
						D.P. Length 3399.00
						H.W. I.D 2.70

RECOVERY

Tot Fluid 45.00 ft of 0.00 ft in DC and 45.00 ft in DP
 45.00 ft of Water cut mud 98% mud 2% water
 800.00 ft of 800' gas in pipe.
 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

Initial Flow -
 Strong blow - built to bottom of bucket in 21 min.
 Initial Shut-in -
 Strong blow back - blew throughout final shutin
 Final Flow -
 Strong Blow. Built to bottom of bucket in 30 sec.
 Final Shut-in -
 Weak blow back - died in 20 min.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type Chemical
 Weight 9.30
 Vis. 44.00
 W.L. 10.80
 F.C. 1.32
 Mud Drop

Amt. of fill 0.00
 Btm. H. Temp. 103.00
 Hole Condition good
 % Porosity 12.00
 Packer Size 6.75
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type

Reversed Out
 Tool Chased N
 Tester Darren Amerine
 Co. Rep. Dan Fredlund
 Contr. DUKE RIG
 Rig # 2
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Gossage #2

LOCATION : Sec 17 Twp 22 Rge 7

TICKET No. 8883 D.S.T. No. 1 DATE 11/25/96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 21

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 53

TOTAL TOOL 74

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 105

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands 63 Single Total 3399

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3504

TOTAL DEPTH 3470

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

P.O. SUB	3395'
C.O. SUB 1'	3396'
S.I. TOOL 5'	3401'
HMV 5'	3406'
JARS	
SAFETY JOINT 2'	3408'
PACKER	3412'
PACKER	3417'
DEPTH	
STUBE 1'	3418'
ANCHOR perfs. 5'	3423'
perfs. 2'	3425'
c/o	3426'
drill pipe 31'	3457'
alpine @	3428'
T.C.	
DEPTH	
perfs. 5'	3462'
perfs. 3'	3465'
ak-1 rec.	3467'
BULLNOSE	
T.D.	3470'

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK# 8883 DST #1 Haliburton Oil Prod. Gossage #2
 DATE: 11/25/96 TIME: 22:55:59

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^
***** Initial Hydro.	93.00	1698.7	0.0	93.18		
***** Start Flow 1	0.00	33.0	0.0	93.54		
	1.00	33.9	0.9	93.70		
	2.00	35.1	2.1	93.84		
	3.00	35.6	2.6	93.97		
	4.00	46.1	13.1	94.07		
	5.00	54.5	21.5	94.17		
	6.00	63.0	30.0	94.24		
	7.00	72.4	39.4	94.30		
	8.00	78.2	45.2	94.34		
	9.00	87.6	54.6	94.39		
	10.00	96.3	63.4	94.43		
	11.00	32.1	-0.8	94.46		
	12.00	33.6	0.7	94.49		
	13.00	31.1	-1.8	94.52		
	14.00	32.3	-0.7	94.55		
	15.00	32.6	-0.3	94.57		
	16.00	32.7	-0.3	94.60		
	17.00	33.0	0.0	94.63		
	18.00	33.0	0.0	94.65		
	19.00	32.8	-0.2	94.68		
	20.00	32.9	-0.1	94.71		
	21.00	33.1	0.1	94.74		
	22.00	33.2	0.2	94.77		
	23.00	33.2	0.2	94.81		
	24.00	33.3	0.3	94.84		
	25.00	33.5	0.5	94.88		
	26.00	33.6	0.6	94.92		
	27.00	33.6	0.6	94.96		
***** End Flow 1	28.00	33.6	0.7	95.00		
***** Start Shutin 1	0.00	33.6	0.0	95.00	0.0000	0.001
	1.00	46.0	12.3	95.04	29.0000	0.002
	2.00	53.5	19.8	95.08	15.0000	0.003
	3.00	58.0	24.3	95.13	10.3333	0.003
	4.00	62.7	29.0	95.18	8.0000	0.004
	5.00	66.5	32.9	95.22	6.6000	0.004
	6.00	69.6	35.9	95.27	5.6667	0.005
	7.00	72.0	38.4	95.32	5.0000	0.005
	8.00	74.2	40.5	95.37	4.5000	0.006
	9.00	76.4	42.8	95.42	4.1111	0.006
	10.00	78.5	44.9	95.47	3.8000	0.006
	11.00	80.0	46.3	95.52	3.5455	0.006
	12.00	81.1	47.4	95.57	3.3333	0.007
	13.00	84.6	50.9	95.63	3.1538	0.007
	14.00	90.5	56.8	95.68	3.0000	0.008
	15.00	93.8	60.2	95.73	2.8667	0.009
	16.00	103.8	70.2	95.78	2.7500	0.011
	17.00	111.4	77.7	95.84	2.6471	0.012
	18.00	116.2	82.6	95.89	2.5556	0.014
	19.00	120.4	86.8	95.94	2.4737	0.015
	20.00	127.8	94.2	95.99	2.4000	0.016

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK# 8883 DST #1 Haliburton Oil Prod. Gossage #2
 DATE: 11/25/96 TIME: 22:55:59

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁴
21.00	133.9	100.2	96.05	2.3333	0.018
22.00	142.6	108.9	96.10	2.2727	0.020
23.00	157.9	124.3	96.15	2.2174	0.025
24.00	171.4	137.7	96.21	2.1667	0.029
25.00	183.8	150.1	96.26	2.1200	0.034
26.00	197.2	163.6	96.32	2.0769	0.039
27.00	209.8	176.2	96.37	2.0370	0.044
28.00	221.6	188.0	96.42	2.0000	0.049
29.00	232.8	199.2	96.48	1.9655	0.054
30.00	242.9	209.2	96.53	1.9333	0.059
31.00	252.8	219.1	96.59	1.9032	0.064
32.00	261.4	227.8	96.63	1.8750	0.068
33.00	269.5	235.8	96.69	1.8485	0.073
34.00	277.0	243.4	96.74	1.8235	0.077
35.00	283.8	250.2	96.79	1.8000	0.081
36.00	290.5	256.8	96.85	1.7778	0.084
37.00	297.1	263.4	96.90	1.7568	0.088
38.00	303.3	269.7	96.95	1.7368	0.092
39.00	309.3	275.6	96.99	1.7179	0.096
40.00	316.0	282.3	97.04	1.7000	0.10
41.00	322.4	288.8	97.09	1.6829	0.104
42.00	328.3	294.7	97.14	1.6667	0.108
43.00	333.9	300.3	97.19	1.6512	0.112
44.00	339.6	306.0	97.23	1.6364	0.115
45.00	345.7	312.0	97.28	1.6222	0.120
46.00	351.9	318.3	97.33	1.6087	0.124
47.00	357.9	324.3	97.37	1.5957	0.128
48.00	363.1	329.5	97.42	1.5833	0.132
49.00	368.1	334.5	97.46	1.5714	0.135
50.00	372.9	339.2	97.50	1.5600	0.139
51.00	376.9	343.3	97.55	1.5490	0.142
52.00	380.4	346.8	97.59	1.5385	0.145
53.00	383.6	350.0	97.63	1.5283	0.147
54.00	386.8	353.2	97.68	1.5185	0.150
55.00	389.6	355.9	97.70	1.5091	0.152
56.00	391.2	357.5	97.75	1.5000	0.153
57.00	390.3	356.7	97.80	1.4912	0.152
58.00	390.2	356.5	97.84	1.4828	0.152
59.00	390.3	356.6	97.87	1.4746	0.152
60.00	390.4	356.8	97.91	1.4667	0.152
61.00	389.8	356.2	97.94	1.4590	0.152
***** End Shut-in 1					
***** Start Flow 2	0.00	34.2	0.0	97.98	
	1.00	33.6	-0.6	98.03	
	2.00	33.8	-0.3	98.14	
	3.00	34.2	0.1	98.26	
	4.00	34.3	0.2	98.37	
	5.00	34.4	0.3	98.47	
	6.00	34.8	0.7	98.55	
	7.00	34.7	0.6	98.62	
	8.00	34.7	0.6	98.67	
	9.00	34.9	0.8	98.72	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK# 8883 DST #1 Haliburton Oil Prod. Gossage #2
 DATE: 11/25/96 TIME: 22:55:59

6

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10'
10.00	35.2	1.0	98.76		
11.00	35.7	1.5	98.80		
12.00	35.6	1.4	98.82		
13.00	35.6	1.4	98.86		
14.00	35.2	1.1	98.88		
15.00	35.7	1.5	98.91		
16.00	35.6	1.4	98.93		
17.00	35.7	1.6	98.96		
18.00	35.7	1.6	98.98		
19.00	36.2	2.0	99.00		
20.00	36.2	2.0	99.04		
21.00	36.2	2.0	99.07		
22.00	36.8	2.6	99.12		
23.00	36.6	2.4	99.16		
24.00	37.0	2.9	99.21		
25.00	36.9	2.8	99.26		
26.00	36.8	2.7	99.31		
27.00	37.3	3.2	99.36		
28.00	37.4	3.3	99.41		
29.00	37.5	3.4	99.46		
30.00	37.3	3.2	99.51		
31.00	39.2	5.0	99.56		
32.00	50.1	15.9	99.61		
33.00	37.5	3.4	99.65		
34.00	37.3	3.1	99.71		
35.00	37.8	3.6	99.75		
36.00	37.9	3.8	99.81		
37.00	38.0	3.9	99.85		
38.00	38.1	3.9	99.89		
39.00	38.2	4.0	99.93		
40.00	38.3	4.1	99.97		
41.00	38.8	4.6	100.01		
42.00	40.4	6.3	100.05		
43.00	40.8	6.6	100.10		
44.00	45.2	11.1	100.14		
45.00	45.1	11.0	100.18		
46.00	46.7	12.6	100.22		
47.00	47.7	13.5	100.27		
48.00	48.8	14.6	100.31		
49.00	51.1	17.0	100.35		
50.00	52.0	17.9	100.40		
51.00	50.8	16.6	100.44		
52.00	61.3	27.1	100.50		
53.00	67.6	33.5	100.53		
54.00	75.5	41.4	100.58		
55.00	82.5	48.3	100.62		
56.00	86.9	52.8	100.67		
57.00	93.2	59.1	100.71		
***** End Flow 2	58.00	41.3	7.1	100.75	
***** Start Shutin 2	0.00	41.3	0.0	100.75	0.0000 0.002
	1.00	58.1	16.8	100.79	87.0000 0.003

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK# 8883 DST #1 Haliburton Oil Prod. Gossage #2
 DATE: 11/25/96 TIME: 22:55:59

Time	Pressure PSig	delta P PSig	P DEG F	(T+dT)/dT	P^2/10
2.00	87.1	45.8	100.83	44.0000	0.008
3.00	114.5	73.2	100.88	29.6667	0.013
4.00	140.4	99.1	100.91	22.5000	0.020
5.00	165.1	123.8	100.95	18.2000	0.027
6.00	188.6	147.3	100.98	15.3333	0.036
7.00	210.7	169.5	101.03	13.2857	0.044
8.00	231.9	190.6	101.06	11.7500	0.054
9.00	251.8	210.5	101.11	10.5556	0.063
10.00	270.6	229.3	101.15	9.6000	0.073
11.00	288.1	246.8	101.18	8.8182	0.083
12.00	304.2	262.9	101.22	8.1667	0.093
13.00	319.4	278.1	101.27	7.6154	0.102
14.00	333.5	292.2	101.29	7.1429	0.111
15.00	346.5	305.2	101.33	6.7333	0.120
16.00	358.6	317.3	101.37	6.3750	0.129
17.00	369.6	328.3	101.41	6.0588	0.137
18.00	379.7	338.4	101.43	5.7778	0.144
19.00	388.9	347.6	101.47	5.5263	0.151
20.00	397.3	356.0	101.50	5.3000	0.158
21.00	405.0	363.7	101.53	5.0952	0.164
22.00	412.2	370.9	101.56	4.9091	0.170
23.00	418.5	377.3	101.60	4.7391	0.175
24.00	424.2	382.9	101.61	4.5833	0.180
25.00	429.5	388.3	101.65	4.4400	0.184
26.00	434.3	393.0	101.68	4.3077	0.189
27.00	438.7	397.4	101.70	4.1852	0.192
28.00	442.5	401.3	101.73	4.0714	0.196
29.00	446.2	404.9	101.75	3.9655	0.199
30.00	449.4	408.1	101.78	3.8667	0.202
31.00	452.4	411.2	101.80	3.7742	0.205
32.00	454.9	413.6	101.83	3.6875	0.207
33.00	457.5	416.2	101.85	3.6061	0.209
34.00	459.5	418.2	101.88	3.5294	0.211
35.00	461.5	420.2	101.89	3.4571	0.213
36.00	463.4	422.2	101.92	3.3889	0.215
37.00	465.1	423.8	101.94	3.3243	0.216
38.00	466.6	425.3	101.96	3.2632	0.218
39.00	468.0	426.7	101.99	3.2051	0.219
40.00	469.3	428.0	102.06	3.1500	0.220
41.00	470.4	429.1	102.02	3.0976	0.221
42.00	471.5	430.2	102.05	3.0476	0.222
43.00	472.5	431.2	102.07	3.0000	0.223
44.00	473.4	432.1	102.09	2.9545	0.224
45.00	474.2	432.9	102.11	2.9111	0.225
46.00	475.1	433.8	102.13	2.8696	0.226
47.00	475.9	434.7	102.14	2.8298	0.227
48.00	476.5	435.2	102.16	2.7917	0.227
49.00	477.2	435.9	102.18	2.7551	0.228
50.00	477.9	436.6	102.20	2.7200	0.228
51.00	478.4	437.1	102.21	2.6863	0.229
52.00	479.0	437.7	102.24	2.6538	0.229

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: TK# 8883 DST #1 Haliburton Oil Prod. Gossage #2
 DATE: 11/25/96 TIME: 22:55:59

6

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10
53.00	479.3	438.0	102.26	2.6226	0.230
54.00	479.9	438.6	102.27	2.5926	0.230
55.00	480.3	439.0	102.30	2.5636	0.231
56.00	480.6	439.4	102.31	2.5357	0.231
57.00	481.1	439.8	102.32	2.5088	0.231
58.00	481.4	440.1	102.34	2.4828	0.232
59.00	481.8	440.5	102.36	2.4576	0.232
60.00	482.2	440.9	102.37	2.4333	0.232
61.00	482.2	440.9	102.39	2.4098	0.232
62.00	482.2	440.9	102.41	2.3871	0.232
63.00	482.3	441.0	102.43	2.3651	0.233
64.00	482.6	441.3	102.44	2.3438	0.233
65.00	482.6	441.3	102.45	2.3231	0.233
66.00	482.7	441.5	102.47	2.3030	0.233
67.00	482.9	441.6	102.49	2.2836	0.233
68.00	483.8	442.5	102.51	2.2647	0.234
69.00	484.3	443.1	102.52	2.2464	0.235
70.00	484.9	443.6	102.54	2.2286	0.235
71.00	485.4	444.1	102.55	2.2113	0.236
72.00	486.0	444.7	102.57	2.1944	0.236
73.00	486.4	445.1	102.59	2.1781	0.237
74.00	486.6	445.3	102.60	2.1622	0.237
75.00	487.0	445.7	102.62	2.1467	0.237
76.00	487.3	446.0	102.63	2.1316	0.237
77.00	487.4	446.2	102.64	2.1169	0.238
78.00	487.7	446.4	102.65	2.1026	0.238
79.00	487.9	446.7	102.67	2.0886	0.238
80.00	488.4	447.1	102.69	2.0750	0.239
81.00	488.5	447.3	102.71	2.0617	0.239
82.00	488.7	447.4	102.72	2.0488	0.239
83.00	488.9	447.6	102.74	2.0361	0.239
84.00	489.0	447.7	102.75	2.0238	0.239
85.00	489.2	447.9	102.78	2.0118	0.239
86.00	489.4	448.1	102.78	2.0000	0.239
87.00	489.5	448.2	102.80	1.9885	0.240
88.00	489.6	448.3	102.81	1.9773	0.240
89.00	489.7	448.4	102.82	1.9663	0.240
90.00	489.8	448.5	102.84	1.9556	0.240
91.00	490.0	448.7	102.85	1.9451	0.240
92.00	490.0	448.8	102.87	1.9348	0.240
93.00	490.2	448.9	102.88	1.9247	0.240
94.00	490.2	448.9	102.89	1.9149	0.240
95.00	490.3	449.0	102.91	1.9053	0.240
96.00	490.5	449.2	102.92	1.8958	0.241
97.00	490.5	449.3	102.93	1.8866	0.241
98.00	490.6	449.3	102.96	1.8776	0.241
99.00	490.8	449.5	102.97	1.8687	0.241
100.00	490.9	449.6	102.98	1.8600	0.241
101.00	491.0	449.7	103.00	1.8515	0.241
102.00	491.1	449.8	103.01	1.8431	0.241
103.00	491.1	449.8	103.03	1.8350	0.241

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK# 8883 DST #1 Haliburton Oil Prod. Gossage #2

DATE: 11/25/96

TIME: 22:55:59

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁴
	104.00	491.1	449.9	103.05	1.8269	0.241
	105.00	491.3	450.0	103.06	1.8190	0.241
	106.00	491.3	450.0	103.07	1.8113	0.241
	107.00	491.3	450.0	103.08	1.8037	0.241
	108.00	491.4	450.1	103.09	1.7963	0.241
	109.00	491.6	450.4	103.11	1.7890	0.242
	110.00	491.6	450.3	103.12	1.7818	0.242
	111.00	491.7	450.5	103.14	1.7748	0.242
	112.00	491.7	450.5	103.15	1.7679	0.242
	113.00	491.7	450.5	103.17	1.7611	0.242
	114.00	491.8	450.5	103.18	1.7544	0.242
	115.00	491.8	450.5	103.19	1.7478	0.242
	116.00	491.9	450.6	103.21	1.7414	0.242
	117.00	492.0	450.7	103.21	1.7350	0.242
	118.00	492.1	450.8	103.24	1.7288	0.242
	119.00	492.1	450.8	103.25	1.7227	0.242
***** End Shut-in 2	120.00	492.1	450.8	103.26	1.7167	0.242
***** Final Hydro.	368.00	1669.3	0.0	103.67		

TEST HISTORY

TK# 8883 DST #1 Haliburton Oil Prod. Gossage #2

Flag Points

t(Min.) P(PSig)

R:	0.00	1698.69
B:	0.00	32.98
C:	28.00	33.65
D:	61.00	389.84
E:	0.00	34.15
F:	58.00	41.28
G:	120.00	492.07
Q:	0.00	1669.32

