

FORM MUST BE TYPED

CONFIDENTIAL

SIDE ONE

ORIGINAL

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

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: TEXACO TRADING & TRANSPORTATION, INC.

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: BIG "A" DRILLING

License: 31572

Wellsite Geologist: N/A

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

RELEASED

Operator: OCT 15 1998

Well Name: _____

Comp. Date: _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

7-30-96 8-7-96 8-27-96

Spud Date Date Reached TD Completion Date

API NO. 15- 081-21044-0000

County HASKELL

150' E of C- SE - SE Sec. 21 Twp. 29 Rge. 34 X W

660 Feet from X(S) (circle one) Line of Section

510 Feet from (E)X (circle one) Line of Section

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

Lease Name RAY "C" Well # 5

Field Name EUBANK

Producing Formation CHESTER

Elevation: Ground 2977.6 KB _____

Total Depth 5650 PBDT 5597

Amount of Surface Pipe Set and Cemented at 1786 Feet

Multiple Stage Cementing Collar Used? X Yes _____ No

If yes, show depth set 3140 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan A.H. 1, 10-5-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1700 ppm Fluid volume 700 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite: KCC

Operator Name OCT 3 1

Lease Name _____ License No. _____

Quarter CONFIDENTIAL 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, 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 David W. Kapple

DAVID W. KAPPLE

Title DIVISION DRILLING ENGINEER Date 10/31/96

Subscribed and sworn to before me this 31st day of October

19 96.

Notary Public L. Marc Harvey

L. MARC HARVEY
Notary Public - State of Kansas
My Appt. Expires 6-12-99

Date Commission Expires _____

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

ORIGINAL

SIDE TWO

CONFIDENTIAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name RAY "C" Well # 5

Sec. 21 Twp. 29 Rge. 34 East West County HASKELL

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	B/STONE CORRAL	1809
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHASE	2522
List All E.Logs Run: DIL, ML, CNL-LDT, SONIC, SBL-CCL-GR.		COUNCIL GROVE	2850
		HEEBNER	3972
		LANSING A	4066
		KANSAS CITY A	4514
		MARMATON	4670
		CHEROKEE	4856
		MORROW	5212
		CHESTER	5354
		ST. LOUIS	5556

CASING RECORD							
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	23.0	1786	P+ MIDCON 2/3 PP	360/110	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	5650	VERSASET	180	.6% HALAD 322, 5% KCL .9% VERSASET, 1/4# SK FLOCELE.

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	5396-5410'	ACID: 1000 GAL 7-1/2% FeHCL	5396-5410
		FRAC: 9800 GAL 40# BORAGEL & 46000# 20/40	5396-5410
		SAND.	

TUBING RECORD Size 2-3/8 Set At 5385 Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. PUT ON PUMP 9-15-96 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil <u>17</u> Bbls.	Gas <u>TSTM</u> Mcf	Water <u>574</u> Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 5396-5410' Other (Specify) _____



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION HAYS, KS

BILLED ON TICKET NO. 103621 **KCC**

WELL DATA

FIELD _____ SEC. 21 TWP. 29S RING. 39W COUNTY. HASWELL 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 _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	23#	8 7/8"	G.L.	1785	
LINER						
TUBING						
OPEN HOLE			12 1/4"	1785	1787	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR INSERT 4Fu 8 7/8" (3)	1	HES
FLOAT SHOE		
GUIDE SHOE Reg 8 5/8"	1	HES
CENTRALIZERS 8 7/8"	5	HES
BOTTOM PLUG		
TOP PLUG SW 8 7/8"	1	HES
HEAD GCR 8 7/8"	1	HES
PROCKER CEMENT Packer 8 7/8"	1	HES
OTHER WELD-A	1 LB	HES

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 7-31-96	DATE 7-3-96	DATE	DATE
TIME 1900	TIME 2130	TIME	TIME

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID FRESH H2O DENSITY 8.33 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. _____
 PERFFAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
JOHN BECKER # 43022	41285 PICKUP	HAYS, KS
TIM KOERLEIR # H4918	53292 COMB.	HAYS, KS
J Adair # 43813	BT 50154 75821	Pampa, Tx, Houston, KS
S Mc Kinney H4145	BT 52825 76111	Pampa, Tx, Houston, KS
MYRON HESTER # 76518	943065 LOWDOWN	Liberal, KS

OCT 31

RELEASED

OCT 15 1996

FROM CONFIDENTIAL

CONFIDENTIAL

DEPARTMENT CEMENT - 5001
 DESCRIPTION OF JOB Cement 8 5/8" SURFACE CASING

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X John Stueck

HALLIBURTON OPERATOR John E Becker COPIES REQUESTED 2

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	360	H4 Fibrocon	SW	B	3% CC 1/4% FR PROCELE	3.22	11.1#
2	100	Peem Plus	SW	C	2% CC 1/4% FR PROCELE	1.34	14.8#

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 40 Feet REASON SHOE JOINT

SUMMARY

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 110.8
 CEMENT SLURRY (BBL.-GAL.) 206.4 BBL + 23.5 BBL = 229.9 BBL
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

See Sub 1 - 10 hrs
11/10/96
11/10/96
11/10/96

FIELD OFFICE

CUSTOMER: AMADAKO PETROLEUM CORP
LEASE: FAY
WELL NO: 5
JOB TYPE: CTR 576



HALLIBURTON

ORIGINAL

DATE 8-1-96 PAGE NO. 1

JOB LOG HAL-2013-C

CUSTOMER Anadarko Pet. Corp. WELL NO. C-#5 LEASE Race JOB TYPE Cont Surface Csg. TICKET NO. 103621

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	19:00	7-31-96						Called Out
	21:30							On Loc. - Rig Drill 12 1/4" Hole Spot & Set up Equip - Discuss Job Safety meeting
	02:15							Start 8 5/8" x 23 # Csg in Hole 1 Cont Guide Shoe 1 Insert Float Valve / Fill up 5 Controlizis 1 Cont Basket 1 Howelwell
								RELEASED OCT 15 1998 FROM CONFIDENTIAL
	04:00							Csg in Hole - Set @ 1785'
	04:10							Hookup PC + Manifold Break Circ / Rig Pump ALL Hook up to PT
	04:32							Start Pump Spacer - 300
	04:33							Spacer in
	04:35							Start Pump Cement 3b Dsk P + 9 Midcon / 3 CC @ 1/4" Flange 100sk Prem Plus / 2 CC @ 1/4" Flange
	05:16		229				200	Finish Mix Cement Release Plug
	05:18						256	Start Displ
	05:18						425	Finish Displ
	05:18		113				400	Plug Loaded - Cont did Circ ✓ Release Pres - Float Held Wash up & Rack up Job Complete
								Thank you for my help Steve

RECEIVED
HANSAS GUMP CORP
NOV-9-4 11-20

FIELD OFFICE



HALLIBURTON JOB SUMMARY

HALLIBURTON DIVISION MEMO CENTER
 HALLIBURTON LOCATION General KS

BILLED ON TICKET NO. 100732
RCC

WELL DATA

FIELD _____ SEC 31 TWP. 29 S. RING. 34 W. COUNTY Franklin 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	<u>N</u>	<u>13.5</u>	<u>5 1/2</u>	<u>K.B.</u>	<u>5664</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>6664</u>	<u>5664</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-2-96</u> TIME <u>14:00</u>	DATE <u>8-8-96</u> TIME <u>18:15</u>	DATE <u>8-9-96</u> TIME <u>00:30</u>	DATE <u>8-9-96</u> TIME <u>01:00</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Insert w/inst</u>	<u>1</u>	<u>Hercos</u>
FLOAT SHOE		
GUIDE SHOE <u>REG</u>	<u>1</u>	
CENTRALIZERS <u>S-4</u>	<u>16</u>	
BOTTOM PLUG		
TOP PLUG <u>5 w/inst</u>	<u>1</u>	
HEAD <u>C.C.P.C.</u>	<u>1</u>	
PACKER <u>Port Collar</u>	<u>1</u>	<u>BARER</u>
OTHER <u>Cmt BASKET</u>	<u>1</u>	<u>Hercos</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>R. Flason</u>	<u>11 4260</u>	<u>41475 (P) General KS</u>
<u>T. BYER</u>	<u>48190</u>	<u>52823</u>
<u>J. SLEMP</u>	<u>114787</u>	<u>75974 (P)</u>
		<u>51984</u>
		<u>75505 (P) Highland KS</u>

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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. _____ IN
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
 BREAKER TYPE _____ GAL. _____
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

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OCT 15 1998

FROM CONFIDENTIAL

DEPARTMENT _____
 DESCRIPTION OF JOB OCT 31
CONFIDENTIAL

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X [Signature]
 HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>120</u>	<u>Prem</u>	<u>Union</u>	<u>13</u>	<u>9% Vermiculite, 5% KCL, 6% lime</u>		
	<u>35</u>	<u>Prem</u>		<u>13</u>	<u>323 1/4" 1st Plastic (No. 205 & 210)</u>	<u>1.41</u>	<u>14.5</u>
						<u>1.06</u>	<u>14.7</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 43? REASON Side Effect

SUMMARY

VOLUMES
 PRES LUSH: BBL.-GAL. 2 10 2 TYPE 100 Super Wash H₂O
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 100 2
 CEMENT SLURRY: BBL.-GAL. 45.2
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

15 SPS Prem in 1st hole 9-11-96
10 SPS Prem in 1st hole 9-11-96
NO
 RELEASED
 OCT 15 1998

CUSTOMER

COIL TUBING JOB LOG 4191

CUSTOMER: <i>ANASAPCO</i>	WELL NO.: <i>C-5</i>	LEASE: <i>PLC</i>	JOB TYPE: <i>5 1/2 Concreting</i>	TICKET NO.: <i>10677</i>
---------------------------	----------------------	-------------------	-----------------------------------	--------------------------

TIME	RATE BPM	N2 RATE scf	VOLUME	PULL WT.	RUN WT.	TUBING psi	CASING psi	DESCRIPTION OF JOB
14:00								Called Out Pump 12.00
18:15								and loc. P.O. L.O.P.
19:15								Long Annular Collars
20:00								Bit out of hole
20:10								Long Annular Bit - 12.00
20:45								Rig up Casing
21:10								START CASING
22:10								CASING and Bottom
22:20								Hook up Circulator / Rig
22:30								Hook to Halliburton
22:32	3.7		26.4				400	START PREPARED 2.00 H ₂ O 2" H ₂ O
22:39	5		45.2				750	START CIRC @ 14.5" / min
22:48							600	SHUT DOWN
22:49							C	2.000 Plug / Wash to Bit
22:52	4.6		133.9				C	START H ₂ O Displacement
23:21							1300	Plug Down
23:32							0	Release Annular Float Holders
								NOU
								Lost Circulation
								40" ²⁰⁰⁰ Plug Det
								Well Circulation
								45" ²⁰⁰⁰ Plug Det
								Lost Circulation
								62" ²⁰⁰⁰ Displacement Det
								Well Circulation
								100" ²⁰⁰⁰ Displacement Det
								RELEASED
								OCT 15 1998
								FROM CONFIDENTIAL
23:32			5					Plug Rot Hole 15" ¹⁰⁰⁰
23:40			2					Plug Plug Hole 10" ¹⁰⁰⁰
								Thank You For Call. by
								HALLIBURTON ENERGY SERVICES
								Robert E. Cress

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OCT 31
CONFIDENTIAL

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OCT 15 1998

FROM CONFIDENTIAL

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KANSAS CORP. COMM.
NOV 9 1998
A 11:20



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION

HALLIBURTON LOCATION

2.6.01.125

BILLED ON TICKET NO.

106649

NCC

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ COUNTY _____ STATE _____

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						
LINER						
TUBING	<u>U</u>		<u>2 7/8</u>	<u>0</u>	<u>3614'</u>	
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>14 AUG 96</u>	DATE <u>14 AUG 96</u>	DATE <u>14 AUG 96</u>	DATE <u>14 AUG 96</u>
TIME <u>07:00</u>	TIME <u>12:00</u>	TIME <u>11:35</u>	TIME <u>15:15</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>A.R. Stanlake</u>	<u>30240</u>	<u>Dillon</u>
<u>70722</u>	<u>RD</u>	<u>22</u>
<u>John R. Hill</u>	<u>53270-7131</u>	<u>"</u>
<u>53237</u>	<u>RCM</u>	<u>"</u>
<u>STAN TELFORD</u>	<u>50737-6411</u>	<u>Houston</u>
<u>H4817</u>	<u>Bulk Unit</u>	<u>123</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API
 PROP. TYPE _____ SIZE **RELEASED** LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ **OCT 15 1998** %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
FROM CONFIDENTIAL
 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. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

CONFIDENTIAL

NCC

OCT 31

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DEPARTMENT Cont. 5001
 DESCRIPTION OF JOB Place Cont. 4 in Port Collar
pick by Tbg. w/ 7 1/2% Acid

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR _____ COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1st</u>	<u>60</u>	<u>P7 Mech. mix</u>		<u>B</u>	<u>2% CC, 1/4% FLUOR</u>	<u>5.2</u>	<u>11.1</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. _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. _____
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

REMARKS
See Job Log 111
9-9 NOV 1996
MAINTENANCE LOG
NOV 11 1996
RECEIVED

CUSTOMER

CUSTOMER _____
 LEASE _____
 WELL NO. _____
 JOB TYPE _____
 DATE _____



HALLIBURTON

DATE 14 Aug 96 PAGE NO. 1

JOB LOG HAT-2013-C

CUSTOMER Anadarko Pet. Co.	WELL NO. #5	LEASE Ray "C"	JOB TYPE Cmt. Fort Collins	TICKET NO. 106669
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	07:00							CALL OUT
	10:00							oil location
	10:45							Set by mfg.
	11:28							Prime Pumps w/ 2% KCL & 4 lbs. Bicicde.
	11:35	1-2	9			2000		LOAD Tbg. / Pressure Test Tbg.
	11:42					0		Release Pressure
	11:44					3000		Pump to circ. working and opening the tool to circulate.
	12:20	3	40			800		Tool open break circulation w/ 2% KCL
	12:32							Shut-down
	12:35	3	35			500		mix & pump 60 sks cmt w/ 2% CC, 1/4 % Flucle (micron) @ 11.1 #, 3.22 % KCL, 20.79 % Using Freshwater.
	12:45	3	12			500		Pump Displacement w/ 2% KCL
	12:50							Shut-down, set tool
	12:53					2000		Test Tbg. OCT 5 11
	13:05	3	25			500 800		Reverse out the Tbg. CONFIDENTIAL
	13:12							Shut-down - stand by for Acid job.
	14:50	3	6			1000		pump 250 gal. 7 1/2 % HCL Acid to pickle Tbg.
	14:55	3	21.5			800		Displace Acid w/ freshwater to 5614'
	15:00							Shut-down
	15:05	3	30			500 800		Reverse Acid out Tbg.
	15:15							Shut-down
	15:20							Rig down

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Thanks
Forrest & John

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