

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

API NO. 15- 187-20817-0000

County Stanton

 - C - NW - SE Sec. 34 Twp. 29S Rge. 40 X W

1980 Feet from S/N (circle one) Line of Section

1980 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 Natalie Anne Well # 1-34

Field Name Little Arrow

Producing Formation Dry

Elevation: Ground 3265' KB 3276'

Total Depth 5745' PBDT 2850'

Amount of Surface Pipe Set and Cemented at 1729 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 D&A 976 1-16-97
(Data must be collected from the Reserve Pit)

Chloride content 1500 ppm Fluid volume 3000 bbls

Dewatering method used Dried and Filled

Location of fluid disposal if hauled offsite:

Operator Name

Lease Name MAR 2 License No.

 Quarter Sec. Twp. S Rng. E/W

County Docket No.

Operator: License # 5952

Name: Amoco Production Company

Address PO Box 800 Room 924

City/State/Zip Denver, CO 80201

Purchaser: N/A

Operator Contact Person: Susan R. Potts

Phone (303) 830-5323

Contractor: Name: Cheyenne Drilling

License: 5382

Wellsite Geologist: Charles Schmaltz

Designate Type of Completion

X New Well Re-Entry Workover

 Oil SWD SLOW Temp. Abd.

 Gas ENHR SIGW

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

If Workover:

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.

2/21/96 3/5/96 3/5/96
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 Justin R. BHS

Title Senior Staff Assistant Date 3-27-96

Subscribed and sworn to before me this 27th day of March, 19 96

Notary Public

Date Commission Expires January 4, 1997

1600 BROADWAY
DENVER, CO 80201

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)

RECEIVED
STATE CORPORATION COMMISSION Form ACO-1 (7-91)

MAR 28 1996

3-28-96

CONFIDENTIAL
WICHITA, KANSAS

SIDE TWO

Operator Name Amoco Production Company Lease Name Natalie Anne Well # 1-34

Sec. 34 Twp. 29S Rge. 40 East County Stanton

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken (Cores were NOT sent out for outside analysis) Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: Spectral Density Dual Spaced Neutron Log with EVR, High Resolution Induction, Microlog

Log Formation (Top), Depth and Datums Sample Datum

Name	Top	Datum
Chase	2223'	
Council Grove	2516'	
Base Heebner	3682'	
Lansing	3741'	
Marmaton	4362'	
Cherokee	4534'	
Morrow	5062'	
Chester	5430'	
St. Genevieve	5476'	
St. Louis	5568'	

FROM CONFIDENTIAL

CASING RECORD

New 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	12.25"	8.625"	28	1729'	Premium Plus Premium Plus Lite 510	150	2%CC+1/4#Flocele 2%CC+1/4#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
N/A			

TUBING RECORD	Size	Set At	Packer At	Liner Run
N/A				<input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumed Production, SWD or Inj. D&A _____ Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: **METHOD OF COMPLETION** Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled Other (Specify) _____ **Production Interval** _____ D&A _____

AMOCO PRODUCTION COMPANY
NATALIE ANNE #1-35
SECTION 34-T29S-R40W
STANTON COUNTY, KANSAS

CONFIDENTIAL

ORIGINAL

15-187-20817

COMMENCED: 02-21-96
COMPLETED: 03-05-96

SURFACE CASING: 1729' OF 8 5/8" CMTD
W/510 SKS PREMIUM PLUS LITE + 2% CC + 1/4
#/SK FLOCELE. TAILED IN W/150 SKS
CLASS C + 2% CC + 1/4 #/SK FLOCELE.

FORMATION

DEPTH

SURFACE HOLE	0 - 1729
SANDSTONE & SHALE	1729 - 1960
LIMESTONE & SHALE	1960 - 2275
CHASE & COUNCIL GROVE	2275 - 2665
LIMESTONE & SHALE	2665 - 3125
COUNCIL GROVE	3125 - 3799
LANSING	3799 - 4220
LANSING & MARMATON	4220 - 4395
MARMATON	4395 - 4672
CHEROKEE	4672 - 5210
MORROW	5210 - 5568
ST. GENEVIEVE	5568 - 5587
ST. LOUIS	5587 - 5745 RTD

RELEASED

SEP 25 1998

FROM CONFIDENTIAL

MAR 27
CONFIDENTIAL

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

Wray Valentine

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 8TH DAY OF MARCH, 1996

JOLENE K. RUSSELL

Jolene K. Russell

NOTARY PUBLIC



RECEIVED
STATE CORPORATION COMMISSION

MAR 28 1996

FILED - STATE CORPORATION COMMISSION
STATE OF KANSAS



JOB LOG HAL-2013-C

CUSTOMER: *Aman Prod Co* WELL NO.: *1-34* LEASE: *NATALIE ARIWE* JOB TYPE: *CO*
 DATE: *2/23/96* PAGE NO.:
 TICKET NO.: *921167*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	<i>06:00</i>							<i>CALLED @ MOLE</i>
	<i>09:00</i>							<i>LEFT CAMP</i>
	<i>10:00</i>							<i>ON (ex. ...) TRKS. ORIGINAL</i>
	<i>15:00</i>							<i>SAFETY MEETING</i>
	<i>16:00</i>							<i>CONFIDENTIAL</i> <i>HALLIBURTON & CUSTOMER READY FOR SERVICES</i>
	<i>16:00</i>	<i>5-7</i>	<i>10</i>		<i>2</i>	<i>200</i>		<i>PUMP H2O AHEAD</i>
	<i>16:01</i>	<i>8</i>	<i>18</i>		<i>2</i>	<i>250</i>		<i>MIX & PUMP LEAD and @ 12.3% gal</i>
	<i>16:25</i>	<i>8</i>	<i>36</i>		<i>2</i>	<i>200</i>		<i>MIX & PUMP TAIL and @ 14.8% gal</i>
	<i>16:29</i>							<i>SHUT DN, RELEASE TOP PLUG</i>
	<i>16:30</i>	<i>4</i>	<i>10</i>		<i>2</i>	<i>200</i>		<i>WASH UP ON TOP OF PLUG</i>
	<i>16:33</i>	<i>6-7</i>	<i>90</i>		<i>2</i>	<i>400</i>		<i>DISPLACE W/ FRESH H2O</i>
	<i>16:47</i>	<i>4</i>	<i>5</i>		<i>1</i>	<i>500</i>		<i>DISPLACE W/ FRESH H2O</i>
	<i>16:48</i>							<i>PLUG DOWN, PRESSURE TESTED</i>
								<i>RELEASED</i>
								<i>SEP 25 1998</i>
								<i>RELEASE BACK, FRONT HERDOK</i>
								<i>FROM CONFIDENTIAL</i>
	<i>16:49</i>							<i>JOB completed</i>

16:27
CONFIDENTIAL

RECEIVED
 STATE CORPORATION COMMISSION
 MAR 22 1996

WELL DATA
FIELD: _____ SEC. 3A TWP. 29S RNG. 40W COUNTY. STANTON STATE KS

FORMATION NAME SURFACE TYPE SANDY SHALE

CASING	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
	<u>U</u>	<u>25#</u>	<u>8 5/8</u>	<u>0</u>	<u>1725</u>	<u>1000</u>
LINER						
TUBING						
OPEN HOLE			<u>12 1/4</u>	<u>0</u>	<u>1729</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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 _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT VALVE</u>	<u>1</u>	<u>HOUW</u>
FLOAT SHOE <u>FILLUP HSBY</u>		
GUIDE SHOE		
CENTRALIZERS <u>S-3</u>	<u>4</u>	<u>HOUW</u>
BOTTOM PLUG		
TOP PLUG <u>SW</u>	<u>1</u>	<u>HOUW</u>
HEAD		
PACKER		
OTHER <u>WFLDA</u>	<u>1</u>	<u>HOUW</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 RELEASED GAL. IN RECEIVED DEPARTMENT CMT
NE AGENT TYPE _____ GAL. STATE CORPORATION COMMISSION DESCRIPTION OF JOB CMT S7B SURFACE
FLUID LOSS ADD. TYPE SEP 25 1996 GAL. IN _____
GELLING AGENT TYPE _____ GAL.-LB. IN MAR 2 8 1996
FRIC RED. AGENT TYPE _____ GAL.-LB. IN _____
BREAKER TYPE FROM CONFIDENTIAL GAL.-LB. IN _____
BLOCKING AGENT TYPE _____ GAL.-LB. IN _____
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2/23</u> TIME <u>06:00</u>	DATE <u>2/23</u> TIME <u>10:00</u>	DATE <u>2/23</u> TIME <u>16:00</u>	DATE <u>2/23</u> TIME <u>16:45</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>B. BENJAMIN</u>	<u>74041</u>	<u>LIBERAL</u>
<u>N. TATE</u>	<u>52158/1151</u>	<u>LIBERAL</u>
<u>D. COPPERING</u>	<u>50865-764</u>	<u>HUGSTON</u>
<u>D. COPPERING</u>	<u>4115-6610</u>	<u>HUGSTON</u>

CONFIDENTIAL

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>I</u>	<u>510</u>	<u>LIGHT</u>	<u>HOUW</u>	<u>B</u>	<u>2% CaCl2 1/4" FIBER</u>	<u>2.00</u>	<u>12.3</u>
<u>IA</u>	<u>150</u>	<u>C</u>		<u>B</u>	<u>2% CaCl2 1/4" HOUSE</u>	<u>1.32</u>	<u>14.8</u>

PRESSURES IN PSI 300 **SUMMARY** **VOLUMES** 10 **TYPE** H2O

CIRCULATING _____ DISPLACEMENT 600 PRESLUSH BB GAL. _____ TYPE _____
BREAKDOWN _____ MAXIMUM 1000 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 105.5
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. 181.6 / 35.2
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 332.3

ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING 8 DISPL. 6.5 OVERALL 7
CEMENT LEFT IN PIPE _____
FEET 42' REASON REQURST

REMARKS CMT Returns to Surf.

CUSTOMER: AMCO PRODUCTION
LEASE: NATALIE ANNE
WELL NO.: 1-25
JOB TYPE: OIO
DATE: 2/23/96



TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 921167

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER Avoco Production	WELL Natalie Ann 1-34	DATE 02-23-96	PAGE OF 2 2
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PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF		QTY.	U/M		QTY.	U/M
504-050	516.00265				Premium Plus Cement	150	sk	12.62	1893	00
504-120					Premium Plus Lite Cement	510	ks	11.12	5671	20
504-050	516.00265					332	sk			
506-105	516.00286					13172	lb			
506-121	516.00259					27	sk			
507-210	890.50071				Elocala ^{1/2} W/ 660	165	lb	1.65	272	25
509-406	890.50812				Calcium Chloride 27W/ 660	12	sk	36.75	441	00
<p>RELEASED SEP 25 1998 FROM CONFIDENTIAL</p>										
<p>ORIGINAL</p>										
<p>CONFIDENTIAL</p>										
<p>STATE CORPORATION COMMISSION RECEIVED MAR 2 8 1996</p>										
<p>CONFIDENTIAL</p>										
500-207					SERVICE CHARGE					
500-306					MILEAGE CHARGE					
					TOTAL WEIGHT	62,257				
					LOADED MILES	42				
					CUBIC FEET		695	1.35	938	25
					TON MILES		1307.397	.95	1242	03

No. B 219831

CONTINUATION TOTAL

10457.73



HALLIBURTON ENERGY SERVICES

HAL-1906-N

CHARGE TO:
Amoco Production Company
 ADDRESS:
2225 W OKLAHOMA AVE
 CITY, STATE, ZIP CODE:
ULYSSES KS 67880

DUNCAN COPY

TICKET

No.

921167 - 5

PAGE 1 OF 2

SERVICE LOCATIONS 1. LIBERAL	WELL/PROJECT NO. 1-34	LEASE NATALIE ANNE STANTON	COUNTY/PARISH KS	STATE KS	CITY/OFFSHORE LOCATION	DATE 2/23/96	OWNER Amoco
2. HUGOTON	TICKET TYPE <input checked="" type="checkbox"/> SERVICE	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR CHEYENNE D216	RIG NAME/NO. #3	SHIPPED CT	DELIVERED TO WELL SITE	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 010	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
000-117					MILEAGE 52938/7131	180	mi	172k		285	513 -
000-119					MILEAGE 94020	180	m.	172k		180	270 -
001 010					CASINGS JOB	1733	FT.			1320-	1320 -
030-010					SWIDER RUBBER PLUG	1	EA	8 3/8 IN		120 -	120 -
24A	815.19501				INSERT FLOAT VALVE	1	EA	8 3/8 IN		182 -	182 -
27	815.19414				FILLUP ASSY	1	EA	8 3/8 IN		64 -	64 -
41	800.61048				CASINGS CENTRALIZERS	4	EA	8 3/8 IN		61 -	244 -
350	890.10802				WELD A	1	#			16 75	16 75

RELEASED SEP 25 1996 FROM CONFIDENTIAL
 RECEIVED REGISTRATION COMMISSION MAR 27 1996

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED **2/23/96** TIME SIGNED **10:30** A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	2729 75
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					FROM CONTINUATION PAGE(S)	10457 73
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?						
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?						
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE?		<input type="checkbox"/> YES	<input type="checkbox"/> NO		SUB-TOTAL	
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					APPLICABLE TAXES WILL BE ADDED ON INVOICE	

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) LO. LEAVELLE	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X	HALLIBURTON OPERATOR/ENGINEER BEUN ET DELAMAIN 47908	EMP #	HALLIBURTON APPROVAL
--------------------------------------------------------------------	------------------------------------------------------	----------------------------------------------------------------	-------	----------------------

TERMS AND CONDITIONS

For good and valuable consideration received, Customer (as identified on the face of this document) and Halliburton Energy Services, a division of Halliburton Company (hereinafter "Halliburton") agree as follows:

A. **CUSTOMER REPRESENTATION** - Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by Halliburton.

B. **PRICE AND PAYMENT** - The services, equipment, products, and/or materials to be supplied hereunder are priced in accordance with Halliburton's current price list. All prices are exclusive of taxes. If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If Customer has an approved open account, invoices are payable on the twentieth day after the date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

C. **RELEASE AND INDEMNITY** - CUSTOMER AGREES TO RELEASE HALLIBURTON GROUP FROM ANY AND ALL LIABILITY FOR ANY AND ALL DAMAGES WHATSOEVER TO PROPERTY OF ANY KIND OWNED BY, IN THE POSSESSION OF, OR LEASED BY CUSTOMER AND THOSE PERSONS AND ENTITIES CUSTOMER HAS THE ABILITY TO BIND BY CONTRACT. CUSTOMER ALSO AGREES TO DEFEND, INDEMNIFY, AND HOLD HALLIBURTON GROUP HARMLESS FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, COSTS, EXPENSES, ATTORNEY FEES AND DAMAGES WHATSOEVER FOR PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE AND LOSS RESULTING FROM:

LOSS OF WELL CONTROL; SERVICES TO CONTROL A WILD WELL WHETHER UNDERGROUND OR ABOVE THE SURFACE; RESERVOIR OR UNDERGROUND DAMAGE, INCLUDING LOSS OF OIL, GAS, OTHER MINERAL SUBSTANCES OR WATER; SURFACE DAMAGE ARISING FROM UNDERGROUND DAMAGE; DAMAGE TO OR LOSS OF THE WELL BORE; SUBSURFACE TRESPASS OR ANY ACTION IN THE NATURE THEREOF; FIRE; EXPLOSION; SUBSURFACE PRESSURE; RADIOACTIVITY; AND POLLUTION AND ITS CLEANUP AND CONTROL.

CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS WILL APPLY EVEN IF THE LIABILITY AND CLAIMS ARE CAUSED BY THE SOLE, CONCURRENT, ACTIVE OR PASSIVE NEGLIGENCE, FAULT, OR STRICT LIABILITY OF ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, THE UNSEAWORTHINESS OF ANY VESSEL OR ANY DEFECT IN THE DATA, PRODUCTS, SUPPLIES, MATERIALS OR EQUIPMENT FURNISHED BY HALLIBURTON GROUP WHETHER IN THE DESIGN, MANUFACTURE, MAINTENANCE OR MARKETING THEREOF OR FROM A FAILURE TO WARN OF SUCH DEFECT. "HALLIBURTON GROUP" IS DEFINED AS HALLIBURTON, ITS PARENT, SUBSIDIARY, AND AFFILIATED COMPANIES AND ITS/THEIR OFFICERS, DIRECTORS, EMPLOYEES, AND AGENTS. CUSTOMER'S RELEASE, DEFENSE, INDEMNITY AND HOLD HARMLESS OBLIGATIONS APPLY WHETHER THE PERSONAL INJURY, ILLNESS, DEATH, PROPERTY DAMAGE OR LOSS IS SUFFERED BY ONE OR MORE MEMBERS OF THE HALLIBURTON GROUP, CUSTOMER, OR ANY OTHER PERSON OR ENTITY AND THE CUSTOMER WILL SUPPORT SUCH OBLIGATIONS ASSUMED HEREIN WITH LIABILITY INSURANCE TO THE MAXIMUM EXTENT ALLOWED BY APPLICABLE LAW.

D. **EQUIPMENT LIABILITY** - Customer shall at its risk and expense attempt to recover any Halliburton equipment lost or lodged in the well. If the equipment is recovered and repairable, Customer shall pay the repair costs, unless caused by Halliburton's sole negligence. If the equipment is not recovered or is irreparable, Customer shall pay the replacement cost, unless caused by Halliburton's sole negligence. If a radioactive source becomes lost or lodged in the well, Customer shall meet all requirements of Section 39.15(a) of the Nuclear Regulatory Commission regulations and any other applicable laws or regulations concerning retrieval or abandonment and shall permit Halliburton to monitor the recovery or abandonment efforts all at no risk or liability to Halliburton. Customer shall be responsible for damage to or loss of Halliburton equipment, products, and materials while in transit aboard Customer-supplied transportation, even if such is arranged by Halliburton at Customer's request, and during loading and unloading from such transport. Customer will also pay for the repair or replacement of Halliburton equipment damaged by corrosion or abrasion due to well effluents.

E. **LIMITED WARRANTY** - Halliburton warrants only title to the equipment, products, and materials supplied under this agreement and that same are free from defects in workmanship and materials for one year from date of delivery. ~~THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE.~~ Halliburton's sole liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale, lease or use of any equipment, products, or materials is expressly limited to the replacement of such on their return to Halliburton or, at Halliburton's option, to the allowance to Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, consequential, or punitive damages. Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, HALLIBURTON IS UNABLE TO GUARANTEE THE EFFECTIVENESS OF THE EQUIPMENT, MATERIALS, OR SERVICE, NOR THE ACCURACY OF ANY CHART INTERPRETATION, RESEARCH ANALYSIS, JOB RECOMMENDATION OR OTHER DATA FURNISHED BY HALLIBURTON. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and CUSTOMER SHALL INDEMNIFY HALLIBURTON GROUP AGAINST ANY DAMAGES ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed to by Halliburton's negligence or fault. Halliburton also does not warrant the accuracy of data transmitted by electronic process, and Halliburton will not be responsible for accidental or intentional interception of such data by third parties.

F. **GOVERNING LAW** - The validity, interpretation and construction of this agreement shall be determined by the laws of the jurisdiction where the services are performed or the equipment or materials are delivered.

G. **WAIVER** - Customer agrees to waive the provisions of the Texas Deceptive Trade Practices-Consumer Protection Act or any similar federal or state statute to the extent permitted by law.

H. **MODIFICATIONS** - Customer agrees that Halliburton shall not be bound by any modifications to this agreement, except where such modification is made in writing by a Vice President or other officer of Halliburton. Requests for modifications should be directed to the Vice President - Legal, 5151 San Felipe, Houston, Texas 77056.

ORIGINAL

CONFIDENTIAL

WELL NAME: Natalie Anne #1-34
OPERATOR: Amoco Production Company
LOCATION: Sec 34 Rge 29S Twp 40W
Stanton County Kansas
DATE: 03/01/96

RELEASED

SEP 25 1998

FROM CONFIDENTIAL

15-187-20817

MAR 27
CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Amoco Production Co
 WELL NAME: Natalie Anne #1-34
 LOCATION : 34-29S-40W Stanton Cty KS
 INTERVAL : 5496.00 To 5530.00 ft

DATE 3-1-96
 KB 3275.00 ft
 GR 3264.00 ft
 TD 5530.00 ft

TICKET NO: 7836 DST #1
 FORMATION: St. Genevieve
 TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	2836	2836	2342			PF Fr. 1659 to 1709 hr
SI 60 Range (Psi)	3500.0	3500.0	4995.0	0.0	0.0	IS Fr. 1709 to 1809 hr
SF 30 Clock (hrs)	AK-1	AK-1	Alpin			SF Fr. 1809 to 1839 hr
FS 60 Depth (ft)	5527.0	5527.0	5502.0	0.0	0.0	FS Fr. 1839 to 1939 hr

	Field	1	2	3	4	
A. Init Hydro	2804.0	2688.0	2671.0	0.0	0.0	T STARTED 1450 hr
B. First Flow	42.0	53.0	50.0	0.0	0.0	T ON BOTM 1657 hr
B1. Final Flow	42.0	53.0	48.0	0.0	0.0	T OPEN 1659 hr
C. In Shut-in	136.0	139.0	189.0	0.0	0.0	T PULLED 1939 hr
D. Init Flow	102.0	110.0	79.0	0.0	0.0	T OUT 2225 hr
E. Final Flow	85.0	72.0	50.0	0.0	0.0	
F. Fl Shut-in	68.0	79.0	102.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2503.0	2511.0	2608.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP
 60.00 ft of Drilling mud

Initial Str Wt 95000.00 lbs
 Unseated Str Wt 75000.00 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 726.00 ft
 D.P. Length 4749.00 ft

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

BLOW DESCRIPTION

Initial Flow -
 Weak surface blow built to .5" blow

Initial Shutin -
 Bled off 2", no blow back

Final Flow -
 No blow

MUD DATA-----

Mud Type Chemical
 Weight 8.90 lb/
 Vis. 72.00 S/L
 W.L. 7.00 in3
 F.C. 0.00 in
 Mud Drop Y 45.0 ft

Amt. of fill 8.00 ft
 Btm. H. Temp. 125.00 F
 Hole Condition Fair
 % 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 Mike Colantonio
 Co. Rep. Sam Carmack
 Contr. Cheyenne Dglg.
 Rig # 3
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

TEST HISTORY

7836 DST#1 Natalie Anne #1-34 Amoco Prod. Comp.

Flag Points

t<Min.> P<PSig>

A:	0.00	2671.08
B:	0.00	50.26
C:	8.00	48.84
D:	58.00	189.25
E:	0.00	79.72
F:	30.00	50.35
G:	58.00	102.55
Q:	0.00	2608.38

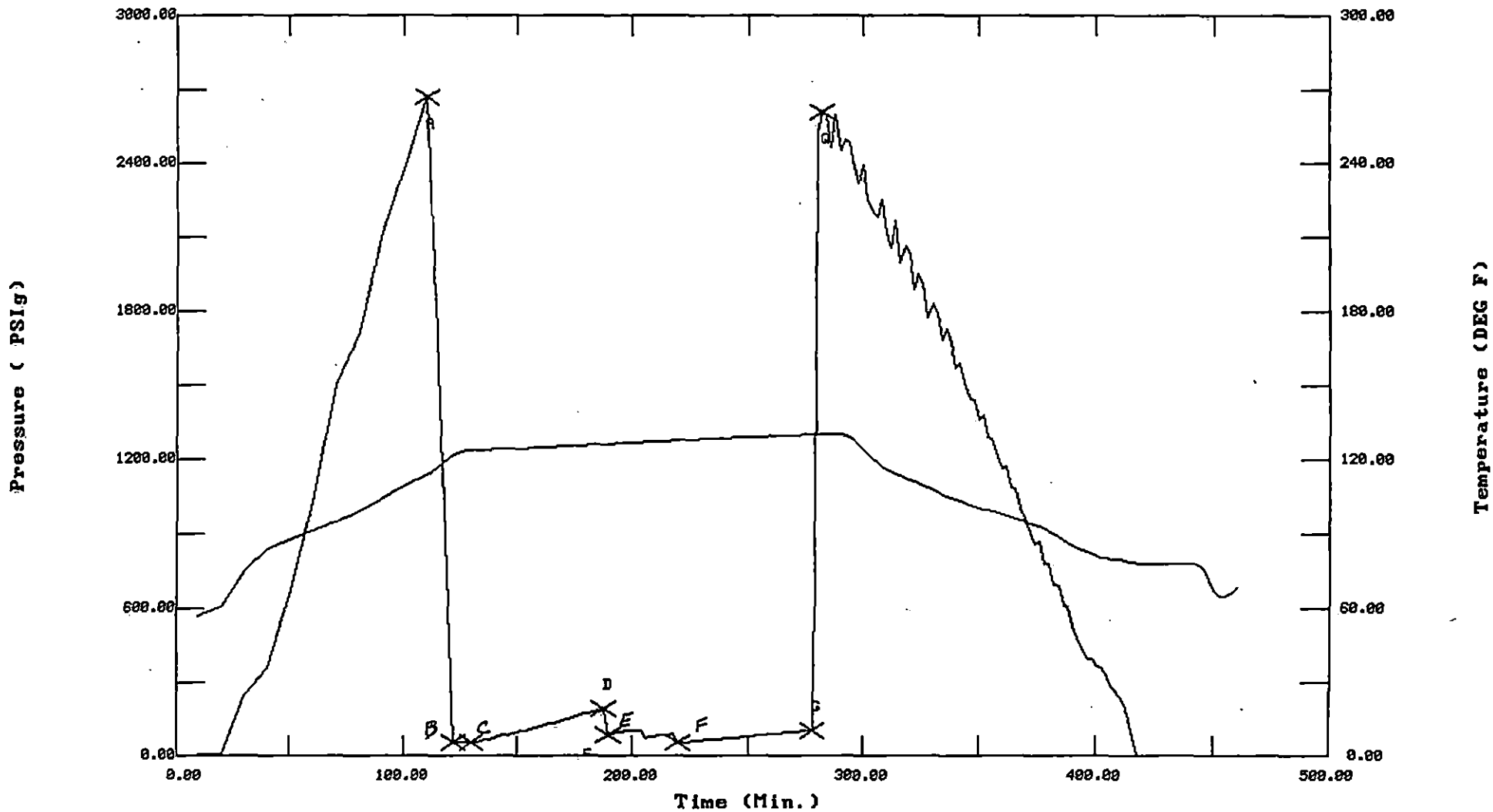
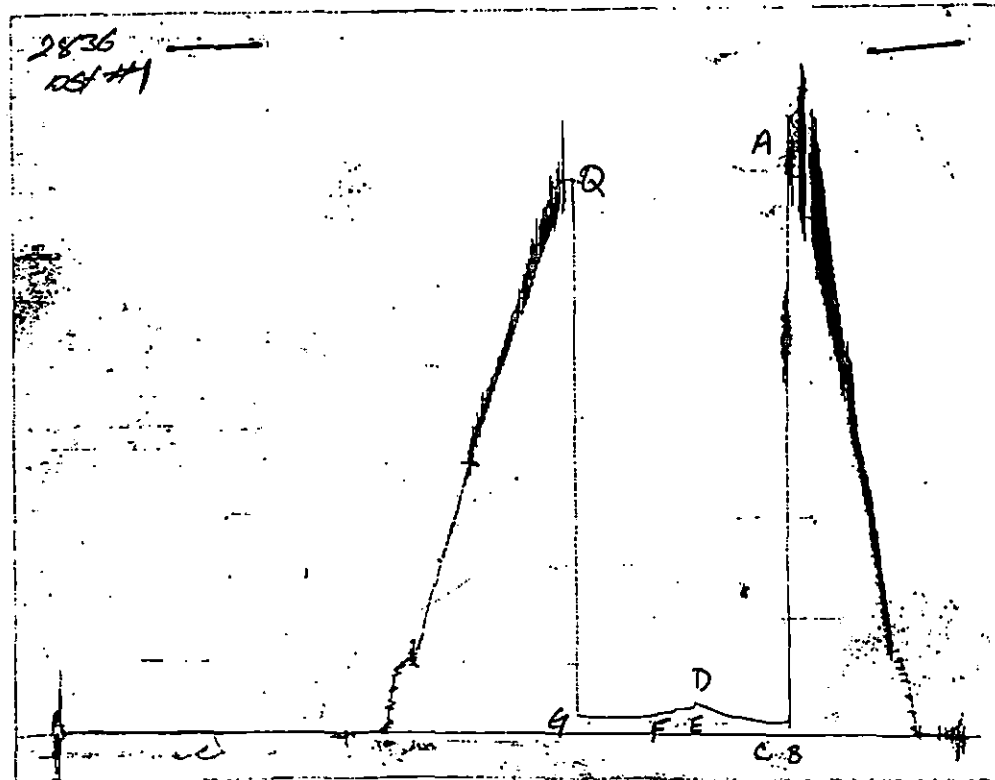


CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 7836 DST#1 Natalie Anne #1-34 Amoco Prod. Comp.

DATE: 03/01/96 TIME: 14:52:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	110.00	2671.1	0.0	113.09		
***** Start Flow 1	0.00	50.3	0.0	121.72		
	2.00	50.6	0.3	122.48		
	4.00	50.8	0.5	122.95		
	6.00	51.0	0.8	123.24		
***** End Flow 1	8.00	48.8	-1.4	123.44		
***** Start Shutin 1	0.00	48.8	0.0	123.44	0.0000	0.002
	2.00	53.3	4.4	123.56	5.0000	0.003
	4.00	57.5	8.6	123.65	3.0000	0.003
	6.00	61.8	12.9	123.74	2.3333	0.004
	8.00	66.0	17.2	123.80	2.0000	0.004
	10.00	70.4	21.6	123.87	1.8000	0.005
	12.00	74.8	25.9	123.94	1.6667	0.006
	14.00	79.2	30.4	124.00	1.5714	0.006
	16.00	83.8	35.0	124.07	1.5000	0.007
	18.00	88.5	39.7	124.14	1.4444	0.008
	20.00	93.2	44.3	124.22	1.4000	0.009
	22.00	98.0	49.2	124.30	1.3636	0.01
	24.00	102.7	53.9	124.39	1.3333	0.011
	26.00	107.5	58.7	124.47	1.3077	0.012
	28.00	112.3	63.4	124.55	1.2857	0.013
	30.00	117.3	68.5	124.65	1.2667	0.014
	32.00	122.2	73.4	124.74	1.2500	0.015
	34.00	127.2	78.4	124.84	1.2353	0.016
	36.00	132.3	83.5	124.93	1.2222	0.018
	38.00	137.4	88.5	125.03	1.2105	0.019
	40.00	142.6	93.7	125.12	1.2000	0.020
	42.00	147.7	98.9	125.23	1.1905	0.022
	44.00	152.9	104.1	125.33	1.1818	0.023
	46.00	158.2	109.4	125.42	1.1739	0.025
	48.00	163.7	114.8	125.53	1.1667	0.027
	50.00	168.9	120.1	125.63	1.1600	0.029
	52.00	172.6	123.8	125.73	1.1538	0.030
	54.00	178.1	129.2	125.83	1.1481	0.032
	56.00	183.7	134.9	125.93	1.1429	0.034
***** End Shut-in 1	58.00	189.2	140.4	126.03	1.1379	0.036
***** Start Flow 2	0.00	79.7	0.0	126.12		
	2.00	86.6	6.9	126.22		
	4.00	91.0	11.2	126.32		
	6.00	94.8	15.1	126.42		
	8.00	98.6	18.9	126.52		
	10.00	102.3	22.6	126.62		
	12.00	101.0	21.2	126.72		
	14.00	100.9	21.1	126.82		
	16.00	70.2	-9.6	126.91		
	18.00	73.4	-6.3	127.00		
	20.00	76.2	-3.5	127.11		
	22.00	78.9	-0.8	127.20		
	24.00	81.4	1.7	127.30		
	26.00	84.1	4.4	127.40		
	28.00	86.6	6.9	127.49		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 7836 DST#1 Natalie Anne #1-34 Amoco Prod. Comp.

DATE: 03/01/96

TIME: 14:52:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** End Flow 2	30.00	50.3	-29.4	127.59		
***** Start Shutin 2	0.00	50.3	0.0	127.59	0.0000	0.003
	2.00	52.5	2.2	127.69	20.0000	0.003
	4.00	54.4	4.0	127.77	10.5000	0.003
	6.00	56.1	5.8	127.87	7.3333	0.003
	8.00	57.8	7.5	127.97	5.7500	0.003
	10.00	59.5	9.1	128.05	4.8000	0.004
	12.00	61.1	10.7	128.14	4.1667	0.004
	14.00	62.7	12.3	128.23	3.7143	0.004
	16.00	64.4	14.0	128.32	3.3750	0.004
	18.00	66.0	15.6	128.40	3.1111	0.004
	20.00	67.7	17.4	128.49	2.9000	0.005
	22.00	69.4	19.1	128.58	2.7273	0.005
	24.00	71.0	20.6	128.66	2.5833	0.005
	26.00	72.7	22.3	128.75	2.4615	0.005
	28.00	74.4	24.0	128.82	2.3571	0.006
	30.00	76.2	25.8	128.90	2.2667	0.006
	32.00	77.9	27.5	128.99	2.1875	0.006
	34.00	79.6	29.3	129.07	2.1176	0.006
	36.00	81.5	31.1	129.15	2.0556	0.007
	38.00	83.2	32.9	129.23	2.0000	0.007
	40.00	85.2	34.8	129.31	1.9500	0.007
	42.00	87.0	36.7	129.39	1.9048	0.008
	44.00	88.9	38.5	129.47	1.8636	0.008
	46.00	90.8	40.5	129.54	1.8261	0.008
	48.00	92.6	42.2	129.62	1.7917	0.009
	50.00	94.3	44.0	129.70	1.7600	0.009
	52.00	96.3	46.0	129.77	1.7308	0.009
	54.00	98.4	48.0	129.85	1.7037	0.01
	56.00	100.5	50.1	129.92	1.6786	0.010
***** End Shut-in 2	58.00	102.6	52.2	129.99	1.6552	0.011
***** Final Hydro.	282.00	2608.4	0.0	130.29		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Natalie Anna #1-34

LOCATION : 34-29S-40W

TICKET No. 7836 D.S.T. No. 1 DATE 3-1-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 29ft.

INTERVAL TOOL

TOTAL PACKERS AND ANCHOR 34ft.

TOTAL TOOL 63ft.

DRILL COLLAR ANCHOR IN INTERVAL

.C. ANCHOR STND.	Stands	Single	Total
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.P. ANCHOR STND.	Stands	Single	Total
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TOTAL ASSEMBLY 63ft.

.C. ABOVE TOOLS.	Stands	12	Single	Total	726ft.
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.P. ABOVE TOOLS.	Stands	76	Single	Total	4749ft.
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5538ft.

TOTAL DEPTH 5530ft.

TOTAL DRILL PIPE ABOVE K.B. 8ft.

REMARKS:

P.O. SUB	
C.O. SUB 1ft Double pin	5467
S.I. TOOL 5ft	5473
HMV HYD. Tool 5ft	5478
JARS 7ft	5485
SAFETY JOINT 2ft	5487
PACKER 5ft	5491
PACKER 5ft	5496
DEPTH 5496ft.	
STUBB 1ft	5497
ANCHOR	
4ft Perf	5501
Alpine Rec.	5502
6ft Pick Up Sub.	5507
20ft Perf	5527
T.C.	
DEPTH	
AK-1 Rec.	5527
BULLNOSE 3ft Bull plug	
T.D.	5530