

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name CALLAHAN "A" Well # 2H
 Sec. 33 Twp. 32S Rge. 40 East West
 County MORTON

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B. CIMARRON	1600	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	KRIDER	2286	
		WINFIELD	2354	
		TOWANDA	2420	
		FT. RILEY	2472	

List All E.Logs Run: **HIGH RESOLUTION INDUCTION MICRO COMPENSATED SPECTRAL GAMMA DUAL-SPACED NEUTRON SEGMENTED BOND**

CASING RECORD <input checked="" type="checkbox"/> New <input 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	577	75/25 POZMIX/ CLASS H	210/150	2%CC, 1/4#SX FLOC
PRODUCTION	7 7/8	5 1/2	15.5	2585	CLASS C/ CLASS C	165/40	2%CC, 1/4#SX FLOC 20%DCD, 2%CC, 1/4#SX FLOC/10%DCD, 2%CC, 1/4#/SX 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	2288-96, 2355-63	SPEARHEAD W/750 GALS 15% HCL, FRAC DOWN CSG W/23,500 GALS 30# BORAGELLED 2% KCL WTR & 106,300# 16/30 SAND 2288-2363

TUBING RECORD	Size 2 3/8	Set At 2322	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 11/7/94	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil -- Bbbs.	Gas 108 Mcf	Water 4 BF/HR	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. Conmingled 2288-2363 OA

Other (Specify) _____

ORIGINAL

NORSEMAN DRILLING, INC.
WICHITA, KANSAS
DRILLERS' WELL LOG

WELL NAME: CALLAHAN A-2H
SECTION 33-32S-40W
MORTON COUNTY, KANSAS

API #15-129-21296

COMMENCED: JULY 15, 1994

COMPLETED: JULY 19, 1994

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth From	To	Formation	Remarks
0	1207	Sand & Redbed	Ran 14 jts of 24#
1208	1344	Glorietta Sand	8 5/8" csg set @
1345	2590	Redbed	577'; w/210 SX of 75/25 pozmix; 2% CC; 1/4# SX Floceal; Tailed with 150 SX Class H; 2% CC; 1/4# Floceal; Plug down 2:15 a.m. 07/16/94.

Ran 60 jts. 5 1/2" 15.50#, Set @ 2585'; Cement w/165
SX Class C; 20% Diacel D; 2% CC; 1/4# Floceal; Tailed
w/40 SX Class C; 20% Diacel D; 2% CC; 1/4# SX Floceal;
Plug down @ 7:30 a.m. on 07/19/94.

STATE OF KANSAS)I, the undersigned, being duly sworn on
)oath, state that the above Drillers' Well
)Log is true and correct to the best of my
COUNTY OF SEDGWICK)knowledge and belief and according to the
)records of this office.

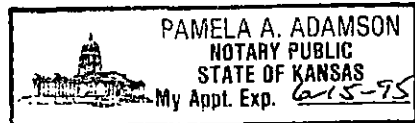
NORSEMAN DRILLING, INC.

James P. Reilly

JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this

July 22, 1994



My Appointment Expires:

June 15, 1995

Pamela A. Adamson

Pamela A. Adamson, Notary Public
340 Seville
Wichita, KS 67209

RECEIVED
STATE CORPORATION COMMISSION
NOV 08 1994
CONSERVATION DIVISION
WICHITA, KANSAS



JOB LOG FORM 2013 R-4

CUSTOMER Anadarko P. Tr. WELL NO. 2 H LEASE Colbyhan JOB TYPE 8 5/8 SURFACE TICKET NO. 677842

Table with columns: CHART NO., TIME, RATE (BPM), VOLUME (BBL) (GAL), PUMPS (T, C), PRESSURE (PSI) (TUBING, CASING), DESCRIPTION OF OPERATION AND MATERIALS. Includes handwritten entries for operations like 'Time Collected', 'Start Pump Casing', 'Hook Up To Crecrate Casing', and 'Start Plug Cement'.

Thanks For Calling Halliburton
P. [unclear]
Crew

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JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

MidCont
Liberal KS

BILLED ON TICKET NO. **697842**

CUSTOMER

Anderson Pineda Corp Lease

Callahan

WELL NO.

2 N

JOB TYPE

8 3/8 Surface

DATE *7-16-94*

WELL DATA

FIELD _____ SEC. **33** TWP. **32 S** RNG. **40 W** COUNTY **Monton** 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 3/8	K13	577	
LINER						
TUBING						
OPEN HOLE			12 1/4 GL	577		SHOTS/FT.
PERFORATIONS			ORIGINAL			
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
8 3/8		
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		Howco
PACKER		
OTHER		

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 7-15	DATE 7-16	DATE 7-16	DATE 7-16
TIME 2100	TIME 2300	TIME 0115	TIME 0210

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<i>Oliver</i>	40075	LIBERAL Ks
<i>Oliver</i>	59179	Ks
<i>Oliver</i>	E1598	"
<i>JAMES</i>	3626	Hugton Ks
	6610	

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. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT **Cement**

DESCRIPTION OF JOB **8 3/8 SURFACE**

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

CUSTOMER REPRESENTATIVE *X Oliver*

HALLIBURTON OPERATOR *Oliver*

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	210	75/25 Poz	H		2% CC 1/4# Floeche 2% Gel	1.13	15.8
	150	Poz			2% CC 1/4# Floeche	1.06	16.4

PRESSURES IN PSI

SUMMARY

VOLUMES

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 **42** REASON **Stop Job**

PRESLUSH: BBL.-GAL. _____ TYPE _____

LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

TREATMENT: BBL.-GAL. _____

CEMENT SLURRY: BBL.-GAL. **72.44**

TOTAL VOLUME: BBL.-GAL. _____

REMARKS

DISPL: BBL.-GAL. **34.0**

STATE CORPORATION COMMISSION

NOV 08 1994

CONSERVATION DIVISION

WICHITA, KANSAS



CHARGE TO: *Amador Petroleum Corp.*
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

COPY _____
 TICKET No. **677842 - 0**
 PAGE: _____ DIVISION: _____

FORM 1906 R-13

SERVICE LOCATIONS 1- <i>25540 Lucha Ks</i> 2- <i>25535 Hguta Ks</i> 3- _____ 4- _____	WELL/PROJECT NO. <i>2#</i>	LEASE <i>Callahan</i>	COUNTY/PARISH <i>Martin</i>	STATE <i>Ks</i>	CITY/OFFSHORE LOCATION	DATE <i>5-16-91</i>	OWNER <i>Amador</i>
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input type="checkbox"/> NO	CONTRACTOR <i>Whitman Dly</i>	RIG NAME/NO. <i>2</i>	SHIPPED VIA	DELIVERED TO <i>Loc</i>	ORDER NO.	
WELL TYPE	WELL CATEGORY <i>0203</i>	JOB PURPOSE <i>010 8 1/2 SURFACE</i>	WELL PERMIT NO.	WELL LOCATION <i>N of Billa</i>			
REFERRAL LOCATION	INVOICE INSTRUCTIONS <i>0203</i>						

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT		UNIT PRICE	AMOUNT
		LOC	ACCT.	DF							
<i>000-117</i>		<i>1</i>			MILEAGE	<i>50</i>	<i>mi</i>			<i>2.75</i>	<i>137.50</i>
<i>001-016</i>		<i>1</i>			<i>Pumps & Lines</i>	<i>1</i>	<i>Ex</i>			<i>890.00</i>	<i>890.00</i>
<i>030-018</i>		<i>1</i>			<i>50 Top 1/2"</i>	<i>1</i>	<i>Ex</i>			<i>130.00</i>	<i>130.00</i>

ORIGINAL

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.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: *[Signature]*

DATE SIGNED: _____ TIME SIGNED: _____ 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 <i>1157.50</i> FROM CONTINUATION PAGE(S) <i>416.02</i>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				
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 APPLICABLE TAXES WILL BE ADDED ON INVOICE		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

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

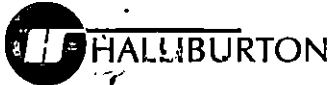
CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <i>[Signature]</i>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>[Signature]</i>	HALLIBURTON OPERATOR/ENGINEER <i>06 [Signature]</i>	EMP # <i>59179</i>	HALLIBURTON APPROVAL
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JOB LOG FORM 2013 R-4

 CUSTOMER **Anadarko Pet Corp** WELL NO. **2 H** LEASE **Callahan "A"** JOB TYPE **035** TICKET NO. **634909**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	02:30							Call out Ready 03:00
	02:30							ON Loc. Rig ON Key Down D.P.
	04:00							run 5 $\frac{1}{2}$ CSG
	06:00							TD CSG Hook Cir w Rig Pump
								ORIGINAL
	06:25	5				250		28 KCH H ₂ O
		"				"		Mod Flush
		"				"		28 KCH H ₂ O
			50					
		"				"		165 ^{SK} P+ 20 ⁵ Diacel-D, 2 ⁸ cc
		"	76.4			100		$\frac{1}{4}$ lb Floccul
		"				100		40 ^{SK} P+ 10 ⁵ Diacel-D, 2 ⁸ cc
		"	14.8			"		$\frac{1}{4}$ lb Floccul
	07:05	1						Stop Wash-up To Pit Drop 5-W Plug
	07:08	6				100		Displ. w H ₂ O
		"						
		2	50			450		
	7:30	"	60.7			500		Plug Down float Holding

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 STATE CORPORATION COMMISSION
 CONSERVATION DIVISION
 WICHITA, KANSAS
 08 1994
 Thank You Tim *[Signature]*



JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid Cont.
Liberal ks

BILLED ON TICKET NO. 634909

WELL DATA
FIELD _____ SEC 33 TWP. 32S RING. 40W COUNTY Morton 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 Chem MUD WT. 9.1
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH 2590

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5 1/2	KB	2594	1500
LINER						
TUBING						
OPEN HOLE			7 7/8	S.P	2590	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT		ON LOCATION		JOB STARTED		JOB COMPLETED	
DATE	7-19-94	DATE	7-19-94	DATE	7-19-94	DATE	7-19-94
TIME	22:30	TIME	02:30	TIME	06:35	TIME	07:30

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		Comp
BOTTOM PLUG		
TOP PLUG	5-W	HES
HEAD	QCPC	
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
T Bohannon	40076 P.O.	Liberal ks
N Tatz	52823 P.	"
R Garrison	75374 P.	"
J Widmeyer	50866 B.	Hugoton ks
G 3525	7644 B.	"
	3625 B.	"
	7020 B.	"

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API
DISPL. FLUID _____ DENSITY _____ LB./GAL. °API
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN
NE AGENT TYPE _____ GAL. _____ IN
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
GELLING AGENT TYPE _____ GAL.-LB. _____ IN
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
BREAKER TYPE _____ GAL.-LB. _____ IN
BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____

DEPARTMENT: 5001
DESCRIPTION OF JOB: 035
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE: X [Signature]
HALLIBURTON OPERATOR: T Bohannon COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	165	Premt			20% Diacel-D, 2% cc, 4 lb Floccle	2.60	12 lb
2	40	Premt			10% Diacel-D, 2% cc, 4 lb Floccle	2.09	13 lb

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 Shoe ST

SUMMARY

VOLUMES

PRESLUSH: BBL. GAL. 10 + 30 + 10 TYPE KCL 28 Mod Flosh
LOAD & BKDN: BBL. GAL. _____ PAD: BBL. GAL. _____
TREATMENT: BBL. GAL. _____ DISPL: BBL. GAL. 60.7
CEMENT SLURRY: BBL. GAL. 26.4 + 14.8
TOTAL VOLUME: BBL. GAL. _____
REMARKS: lost some cir into job got cir back 150 bbl

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NOV 08 1994
CONSERVATION DIVISION
WICHITA, KANSAS

CUSTOMER: Anadarko Pet. Corp.
LEASE: Callahan A
WELL NO.: 24
JOB TYPE: 035
DATE: 7-15-94



HALLIBURTON

HALLIBURTON ENERGY SERVICES

TICKET CONTINUATION

CUSTOMER COPY

TICKET No. 63409

CUSTOMER Anadarko Petroleum Corp.

WELL Callahan

DATE 7-19-94

FORM 1911 R-10

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-050	516.00265				Premium Plus Cement	205	sk			10.36	2123.80
500-959	70.15524				Diacel	3478	LB			42	1469.76
509-408	890.50812				Calcium Chloride	6	sk			36.75	220.50
507-210	890.50071				Flocele	60	LB			1.65	99.00
ORIGINAL											
500-207					SERVICE CHARGE			CUBIC FEET	426	1.35	575.10
500-306					MILEAGE CHARGE			TOTAL WEIGHT	23,288	LOADED MILES	27
								TON MILES	314.388	95	298.67

No. B 262636

CONTINUATION TOTAL 4,777.83