

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name NORDLING "A" Well # 2H

Sec. 23 Twp. 32S Rge. 38 East County STEVENS
 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 (Attach Additional Sheets.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E.Logs Run: CBL-CCL-GR.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"><input checked="" type="checkbox"/> Log</td> <td style="width:30%;">Formation (Top), Depth and Datums</td> <td style="width:20%;"><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>B/STONE CORRAL</td> <td>1764</td> <td></td> </tr> <tr> <td>HOLLENBURG</td> <td>2500</td> <td></td> </tr> <tr> <td>HERRINGTON</td> <td>2542</td> <td></td> </tr> <tr> <td>KRIDER</td> <td>2566</td> <td></td> </tr> <tr> <td>WINFIELD</td> <td>2654</td> <td></td> </tr> <tr> <td>TOWANDA</td> <td>2706</td> <td></td> </tr> <tr> <td>FT. RILEY</td> <td>2762</td> <td></td> </tr> <tr> <td>FLORENCE</td> <td>2825</td> <td></td> </tr> <tr> <td>WREFORD</td> <td>2862</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample	Name	Top	Datum	B/STONE CORRAL	1764		HOLLENBURG	2500		HERRINGTON	2542		KRIDER	2566		WINFIELD	2654		TOWANDA	2706		FT. RILEY	2762		FLORENCE	2825		WREFORD	2862	
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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	23.0	714	MIDCON/ PREMIUM PLUS	120/100	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7-7/8	5-1/2	15.5	2959	MIDCON	140/120	3%CC, 1/4#SK FLC/ SAME.

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

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
1	2500-08, 2542-52, 2566-76, 2600-20, 2654-74.	ACID: 2000 GAL 7-1/2% FEHCL.	2500-2872 (OA)
	2706-26, 2762-96, 2825-35, 2862-72.	FRAC: 104500 GAL FOAM LNR GEL & 355000#	2500-2875 (OA)
		12/20 SD.	

TUBING RECORD	Size NONE	Set At	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. 8-24-96	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 Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		840	0		

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: 2500-2872- (OA)

ANADARKO PETROLEUM CORPORATION
NORDLING A-2H
SECTION 23-T32S-R38W
STEVENS COUNTY, KANSAS

ORIGINAL

COMMENCED: 08-12-96
COMPLETED: 08-15-96

CONFIDENTIAL

15-189-22072

SURFACE CASING: 715' OF 8 5/8" CMTD
W/120 SKS PREMIUM PLUS MIDCON + 3% CC
+ 1/4#/SK FLOCELE. TAILED IN W/100 SKS
PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 715
RED BED	715 - 890
RED BED & ANHYDRITE	890 - 1224
GLORIETTA	1224 - 1424
RED BED	1424 - 2760
LIMESTONE & SHALE	2760 - 2970 RTD

RELEASED
MAR 23 1998

FROM CONFIDENTIAL

REC
SEP 6
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 20TH DAY OF AUGUST, 1996.

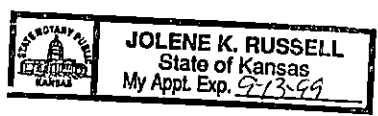
RECEIVED
STATE CORPORATION COMMISSION

SEP 0 9 1996

NOTARY PUBLIC

JOLENE K. RUSSELL

Jolene K Russell
NOTARY PUBLIC



WELL DATA

FIELD *Hugoton* SEC *23* TWP *32* RNO *38W* COUNTY *Seward* 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 _____ MDD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<i>N</i>	<i>23</i>	<i>8 1/2</i>	<i>BY SURFACE</i>	<i>715</i>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS				ORIGINAL		
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <i>inscot 8 1/2</i>	<i>1</i>	<i>Hanco</i>
FLOAT SHOE <i>Fillet</i>	<i>1</i>	
GUIDE SHOE <i>Tx</i>	<i>1</i>	
CENTRALIZERS <i>REG</i>	<i>3</i>	
BOTTOM PLUG		
TOP PLUG <i>Sw</i>	<i>1</i>	
HEAD <i>PC</i>	<i>1</i>	
PACKER <i>BRACKET</i>	<i>1</i>	
OTHER <i>WELL</i>		

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <i>8-12-96</i>	DATE <i>8-12-96</i>	DATE <i>8-13-96</i>	DATE <i>8-13-96</i>
TIME <i>1500</i>	TIME <i>1800</i>	TIME <i>0023</i>	TIME <i>0049</i>

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 _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
RELEASED		
MAR 23 1998		
FROM CONFIDENTIAL		
SEP 6 1996		
CONFIDENTIAL		

DEPARTMENT *5001*

DESCRIPTION OF JOB *SET SURFACE PIPE*

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

CUSTOMER REPRESENTATIVE *X of Shiley*

HALLIBURTON OPERATOR *Rayes*

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<i>120</i>	<i>P4 MC 223</i>		<i>B</i>	<i>3% CC, 1/4% Ft Floerite</i>	<i>3.73</i>	<i>11.1</i>
	<i>100</i>	<i>Prem Plus</i>		<i>B</i>	<i>2% CC, 1/4 Floerite</i>	<i>1.34</i>	<i>14.8</i>

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. *42.9*

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. *68.8* *23.5*

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET *42.25* REASON *Shut Joint*

REMARKS
STATE CORPORATION COMMISSION

SEP 0 9 1996

FIELD OFFICE

WILLIAM A. SPANUS
DIRECTOR OF OIL AND GAS

CUSTOMER: *HFC*
LEASE: *Woodling*
WELL NO.: *2-11*
JOB TYPE: *CO*
DATE: *8-28-96*



JOB LOG HAL-2013-C

CUSTOMER APC	WELL NO. Z-H	LEASE Nordling "A"	JOB TYPE 010	TICKET NO. 920514
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

	1500							Called out - Requested "1900"
	1800							ON loc. - Drilling
	2010							T.O.H.
	2210							Run Csg.
	2335							On Bottom @ 17 sks - 8 5/8" ²³
	2345							Hook-up to cise.
	0020							Hook-up to cement
	0023	0-12	68				0/250	Pump lead cmt.
		6	23				250	Pump Tail cmt
	0036	6-10					250/0	Shut down - Drop plug
		0-5"	43 1/2				0/300	Pump Displ. - wash-up tak.
	0046	5-2					300/250	Reduce Rate - 40 bbls in
	0048	2-0					300/100	Plug Down - 43 1/2 bbls in
	0049						100/0	Release Press - Float held

CONFIDENTIAL

ORIGINAL

Cement to surface
Approx 23 Hrs. on 40 sks

Thank you!

Tom & Sonny & crew

REC
SEP 6
CONFIDENTIAL

RELEASED

MAR 23 1998

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

SEP 03 1996

MINNIE, KANSAS



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mick Low
Liberal, Ks

BILLED ON TICKET NO. 106778

KCC

WELL DATA
FIELD _____ SEC. 23 TWP. 32^s RNG. 38^W COUNTY STEUBENS 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		15.3	5 1/2	123	2954	8'4
LINER						
TUBING						
OPEN HOLE			7 1/4			SHOTS/FT.
PERFORATIONS					ORIGINAL	
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <i>Insert Float</i>	1	Hewlett
FLOAT SHOE <i>Ellipt</i>	1	
GUIDE SHOE <i>1 Peg</i>	1	
CENTRALIZERS	18	
BOTTOM PLUG		
TOP PLUG	1	
HEAD	1	
PACKER		
OTHER		

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 _____

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 8-15	DATE 8-15	DATE 8-15	DATE 8-15
TIME 0700	TIME 1100	TIME 1440	TIME 1550

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Oliver	41475	Liberal, Ks
D. M. ...	52936 / 75051	"
M. Langworth	50404 / 75505	Hugoton, Ks
NEW		
6		
CONFIDENTIAL		
		Liberal, Ks

DEPARTMENT *Cement*
DESCRIPTION OF JOB *5 1/2 Prod. Str.*
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
CUSTOMER REPRESENTATIVE *X*
HALLIBURTON OPERATOR *Oliver's Log* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	RELEASED	YIELD CU.FT./SK.	MIXED LBS./GAL.
	140	Beam Plus	M. ...	3900	1/4 Floate	MAR 23 1998	2.22	11.1
	120	Beam Plus	M. ...	3600	1/4 Floate		2.01	12.8

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 *147.93* REASON *Shoe Joint*

SUMMARY

PRESLUSH: BBL.-GAL. *10 BBL*
LOAD & BKDN: BBL.-GAL. *30 BBL*
TREATMENT: BBL.-GAL. *10 BBL*
CEMENT SLURRY: BBL.-GAL. *173.2*
TOTAL VOLUME: BBL.-GAL. *173.2*

REMARKS
RECEIVED
STATE CORPORATION COMMISSION
SEP 09 1998

CUSTOMER: Mick Low
JOB TYPE: 5 1/2 Prod. Str.
DATE: 8-15-98



JOB LOG HAL-2013-C

CUSTOMER		WELL NO.	LEASE	JOB TYPE	TICKET NO.	
Aundara P210		2 H	Worthing A	3 1/2 Reel Strips	106778	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURE (PSI) TUBING CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0700					Time Called
	1100					Time Ready
	1100					Time on lot. By Start by Down DC.
						Start Pumping Casing
	11440					Casing in hole ORIGINAL
	11440					Hookup to Curbstone Casing
	1450					Curbstone Casing w/air Pump
	1451					Curbstone Mud to Curbstone Level
	1500					Hookup to Pump Truck
	1505	5			250	Start 2% KCL Ahead
	1507	/	10		250	Start Mud Flush
	1513	/	30		250	Start 2% KCL Behind
	1515	6	10		250	Start Mixing Cement
	1523	/	80.28		200	Start Top Cement
	1530	/	142.95		250	Finish Mixing Cement
	1538	/	173.23		250	Shut Down
	1532					Wash Pump's Lines
	1535				150	Start Displacement
	1550	4.6	179.14		150	Shut Down
						Float Held
						Curbstone Fluid Thru out door

CONFIDENTIAL

ORIGINAL

SEP 6 1996

RELEASED MAR 25 1998

FROM CONFIDENTIAL

Thanks For Calling

Halliburton Energy Services
Dennis Combs

RECEIVED STATE CORPORATION COMMISSION

SEP 09 1996