

ORIGINAL

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

Operator: License # 4549Name: ANADARKO PETROLEUM CORPORATIONAddress P. O. BOX 351City/State/Zip LIBERAL, KANSAS 67905-0351Purchaser: NONEOperator Contact Person: DAVID W. KAPPIEPhone (316) 624-6253Contractor: Name: NORSEMAN DRILLINGLicense: 3779

Wellsite Geologist: _____

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☐ Oil ☐ SWD ☐ SIOW ☒ Temp. Abd.☐ Gas ☐ ENHR ☐ SIGW☒ 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 ☐ PBTD☐ Commingled ☐ Docket No. _____☐ Dual Completion ☐ Docket No. _____☐ Other (SWD or Inj?) ☐ Docket No. _____2-16-97 2-28-97 3-19-97

Spud Date Date Reached TD Completion Date

API NO. 15- 129-21494 ~ 00 - 00County MORTONS/2 - N/2 - SW - NW Sec. 23 Twp. 33 Rge. 41 E1850 Feet from NW (circle one) Line of Section660 Feet from X(N) (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)Lease Name USA BARKER "A" Well # 2Field Name BERRYMANProducing Formation NONEElevation: Ground 3319.6 KB _____Total Depth 5665 PBTD 2300Amount of Surface Pipe Set and Cemented at 1410 FeetMultiple Stage Cementing Collar Used? ☒ Yes ☐ NoIf yes, show depth set 2424 Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan DAA JK 9-2-97
(Data must be collected from the Reserve Pit)Chloride content 1000 ppm Fluid volume 700 bblsDewatering method used DRY, BACKFILL & RESTORE LOCATION

Location of fluid disposal if hauled offsite: _____

Operator Name 6-4-1997 ALease Name _____ License No. 222_____
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, 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 L. Marc Harvey

L. MARC HARVEY

Title DRILLING TECHNICAL ASSISTANT Date 5-27-97Subscribed and sworn to before me this 27th day of May 19 97.Notary Public Freda L. Hinz

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 ☐ NGPA
☐ KGS ☐ Plug ☐ Other
(Specify)

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATIONLease Name USA BARKER "A"Well # 2Sec. 23 Twp. 33 Rge. 41☐ EastCounty MORTON☒ 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 ☐ NoCores Taken ☐ Yes ☒ NoElectric Log Run ☒ Yes ☐ No
(Submit Copy.)List All E.Logs Run: DIL, CNL-LDT, ML, SONIC,
CBL-CCL-GR.☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
B/STONE CORRAL	1424	
KRIDER	2116	
COUNCIL GROVE	2414	
WABAUNSEE	2837	
TOPEKA	3080	
TORONTO	3551	
LANSING	3594	
KANSAS CITY	3758	
MARMATON	4210	
MORROW	4832	
CHESTER	5348	
STE. GENEVIEVE	5380	
ST. LOUIS	5516	

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	12-1/4"	8-5/8"	23.0	1410	P+ MIDCON 2/ P+	265/225	3%CC, 1/4#SK FLC/ 2%CC, 1/4#SK FLC.
PRODUCTION	7 7/8"	5 1/2"	15.5	4330	VERSASET	105	.6% HALAD 322, 5% KCl, .9% VERSASET, 1/4#SK FLC.
			D.V. TOOL @	2424	P+ MIDCON	115	2%CC, 1/4#SK FLC.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ 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
4	4210-4216, CIBP @ 2300'	ACID: 600 GAL 15% FeHCl.	4210-4216

TUBING RECORD	Size	Set At	Packer At	Liner Run
				☐ Yes ☒ 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

Production Interval

☐ Vented ☐ Sold ☐ Used on Lease
(If vented, submit ACO-18.)☐ Open Hole ☒ Perf. ☐ Dually Comp.☐ Commingled NON COMMERCIAL☐ Other (Specify) _____D&A

ORIGINAL

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

WELL NAME: USA BARKER A-2
SECTION 23-33S-41W
MORTON COUNTY, KANSAS

15-129-21494

COMMENCED: FEBRUARY 16, 1997

COMPLETED: MARCH 1, 1997

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth From	To	Formation	Remarks
0	979	Sand & Redbed	Ran 34 jts of 23# of
980	1143	Glorietta Sand	8 5/8" csg set @ 1410';
1144	4789	Redbed	Cemented w/350 sx 2%;
4790	5665	Lime & Shale	Tailed w/125 sx; Plug down at 7:45 p.m. on 02/17/97.

Ran 102 jts of 5 1/2" 15.5# Set @ 4300; w/154 SX Lead; Plug down 5:45 p.m. on
03/01/97; Rig Rel at 11:00 p.m. on 03/01/97.

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

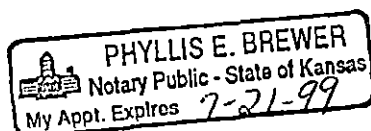
NORSEMAN DRILLING, INC.

Ronald J. Fowler
RONALD J. FOWLER, ACCOUNTANT

Subscribed & sworn to before me this March 6, 1997

My Appointment Expires:

July 21, 1999



Phyllis E. Brewer
Phyllis E. Brewer, Notary Public
11817 Jamesburg
Wichita, KS 67212

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JOB SUMMARY

HALLIBURTON
DIVISION
HALLIBURTON
LOCATION

Well Contingent
Liberal KS

BILLED ON
TICKET NO 185319

FIELD _____ SEC 23 TWP. 7335 RANG R41W 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 _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC DATA _____ TOTAL DEPTH 1450

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>23</u>	<u>8 7/8</u>	<u>GL</u>	<u>1429</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES			
TYPE AND SIZE	QTY.	MAKE	
FLOAT <u>Insert</u>	<u>8 7/8</u>	<u>1</u>	<u>H</u>
FLOAT SHOE			
GUIDE SHOE <u>Reg</u>	<u>8 7/8</u>	<u>1</u>	<u>O</u>
CENTRALIZERS	<u>8 7/8</u>	<u>4</u>	
BOTTOM PLUG			<u>W</u>
TOP PLUG <u>SW</u>	<u>8 7/8</u>	<u>1</u>	
HEAD <u>P/C</u>	<u>8 7/8</u>	<u>1</u>	<u>C</u>
PACKER			
OTHER <u>Cmt. Gasket</u>	<u>8 7/8</u>	<u>1</u>	<u>O</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 _____

PERFRAC BALLS TYPE _____ QTY _____

OTHER _____

OTHER _____

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-17-97</u>	DATE <u>2-17-97</u>	DATE <u>2-17-97</u>	DATE <u>2-17-97</u>
TIME <u>1000</u>	TIME <u>1230</u>	TIME <u>1905</u>	TIME <u>2315</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. McNamee</u>		<u>Liberal</u>
<u>J. Woodrow</u>		<u>Liberal</u>
<u>S. Grant</u>		<u>Flagstaff</u>
<u>L. Patterson</u>		<u>Flagstaff</u>

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 8 7/8 Surface

JOB DONE THRU. TUBING ☐ CASING ☒ ANNULUS ☐ TBG / ANN. ☐

CUSTOMER REPRESENTATIVE X Charles H. P. P. P.

HALLIBURTON OPERATOR _____

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT / SACK	MIXED LBS / GAL
<u>100</u>	<u>2.0</u>	<u>Portland Cement</u>	<u>5.0</u>	<u>5</u>	<u>3% CC 1/4" 7/8" 3/16"</u>	<u>3.22</u>	<u>11.1</u>
<u>100</u>	<u>2.0</u>	<u>Portland Cement</u>	<u>5.0</u>	<u>5</u>	<u>2% CC 1/4" 7/8" 3/16"</u>	<u>1.52</u>	<u>14.8</u>
<u>125</u>	<u>0.0</u>	<u>0.0</u>	<u>1.0</u>	<u>1</u>	<u>2% CC</u>	<u>1.18</u>	<u>15.6</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 46 REASON Shut Joint

SUMMARY

VOLUMES

PRESLUSH BBL -GAL _____ TYPE _____

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

TREATMENT BBL -GAL _____

CEMENT SLURRY 89 BBL -GAL _____

TOTAL VOLUME BBL -GAL _____

REMARKS

26 0.517 C.F.

FIELD OFFICE

CUSTOMER A.P.C.
LEASE U.S.A. Barker
WELL NO. A-2
JOB TYPE 8 7/8 Surface
DATE 2-17-97



JOB SUMMARY

HALLIBURTON
DIVISION
HALLIBURTON
LOCATION

MidCont
Liberal, Ks

BILLED ON
TICKET NO. 185547

FIELD: SEC. 23 TWP. 33S RNG. 41W 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: MUD WT.: PACKER TYPE: DV Tool SET AT: 2424 BOTTOM HOLE TEMP.: PRESSURE: MISC. DATA: TOTAL DEPTH:

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		15 ⁵	5 1/2	163	4330	79
LINER						
TUBING						
OPEN HOLE					5650	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 3-1	DATE 3-1	DATE 3-1	DATE 3-1
TIME 0700	TIME 1015	TIME 1610	TIME 2130

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
D. Gage	420041	Liberal Ks
T. Millins	52938	"
C. Aley	51984	Hugoton Ks
	77031	

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR 5 1/2		Huro
FLOAT SHOE		
GUIDE SHOE Reg	15	
CENTRALIZERS		
BOTTOM PLUG DV Tool	1	
TOP PLUG DV 12 1/2 SET	1	
HEAD		
PACKER BAKER	1	
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

DEPARTMENT: Cement
DESCRIPTION OF JOB: 5 1/2" DV 2 Stage

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

CUSTOMER REPRESENTATIVE: X O. J. Stunk

HALLIBURTON OPERATOR: Dennis Gier COPIES REQUESTED:

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	105	Prem Veraset			5 1/2% Holad 322 5% KCL 9 1/2% Veraset 1/4# Floccle	1.41	14.5
	115	Prem Plus	McGow		2% CC 1/4# Floccle	2.18	12.8
	25	"			10 5/8" Max Hole 15 5/8" 12 1/2" Hole		

PRESSURES IN PSI

CIRCULATING DISPLACEMENT
BREAKDOWN MAXIMUM
AVERAGE FRACTURE GRADIENT
SHUT-IN: INSTANT 5-MIN 15-MIN.
HYDRAULIC HORSEPOWER

PRESLUSH: BBL.-GAL. 8 1/2 H2O 10 1/2 SF 8 1/2 H2O 2 Stage 20 1/2 H2O
LOAD & BKDN: BBL.-GAL. PAD: BBL.-GAL.
TREATMENT: BBL.-GAL. DISPL: BBL.-GAL. 15 1/2 102.05
CEMENT SLURRY: BBL.-GAL. 1 Stage 2.6 36 2 Stage 44.64 2 Stage 57.64
TOTAL VOLUME: BBL.-GAL. 2.6 44.64

REMARKS

ORDERED AVAILABLE USED
AVERAGE RATES IN BPM

TREATING DISPL. OVERALL
CEMENT LEFT IN PIPE

FEET 42.60 REASON: Shoe joint

CUSTOMER

Amadario Petroleum LEASE USA Soper

WELL NO.

JOB TYPE

5 1/2" DV 2 Stage DATE 3-1-97

3-1-97

TICKET NO.

185547

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Anadarko P2120		A 2		USA Barker		5 1/2" 2 ^{STAGE} DV		185547	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0700							Time Colled	
	1030							Time Ready	
	1015							Time on loc Rig lay Down DP	
	1400							Start Pumping Casing	
	1610							Casing in Hole	
	1610							Hook up To Circulate Casing	
	1620							Circulate Casing w/ Rig Pump	
	1623							Circulate Mud To Ground level	
	1700							1 Stage Hook up To Pump Truck	
	1705	4						300 Start Water Ahead.	
	1707	/	8					300 Start Speed Flush	
	1709	/	10					250 Start Water Behind.	
	1711	/	8					200 Start Mixing Cement	
	1716	6	26.36					200 Finish Mixing Cement	
	1717	/						0 Shut Down	
								wash Pump's & Lines	
	1720		44.36 Water					75 Start Displacement	
	1745		57.69 Mud					1400 Plug Down	
			102.95					1000 Circulate Fluid Thru out logs	
	1748							Deep Beam	
	1800							800 Pressure open DV Tool Circ Fluid	
	1803							Hook up To Rig To Circulate The Hole.	
	2045	2100	5.2 / 3.8					Plug Bottom w/ 15 ^{SC} Mouse Hole w/ 10 ^{SC}	
	2100							Hook up To Pump Truck	
	2105	5						250 Start Water Ahead.	
	2109	6	20					250 Start Mixing Cement	
	2115	/	44.64					200 Finish Mixing Cement	
	2116	/						0 Shut Down	
								wash Pump's & Lines	
	2119	5						150 Start Displacement	
	2130	/	57.5					2000 Plug Down	
								DV Close at 1500 PSI	
								Circulate Fluid Thru out logs	

ORIGINAL

RECEIVED
KANSAS CORP
JAN 14 A 12:22

Thanks For Calling Halliburton Energy Dennis GORZ & Lisa