Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1 September 1999 Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OONEDENTIAL	ODICINIA I
Operator: License # 4549 CUNFILENTIAL	API No. 15 - 189-22430-00-00 ORIGINAL
Name: ANADARKO PETROLEUM CORP.	County: STEVENS
Address: 701 S. TAYLOR STREET, SUITE 400	Sec. 18 Twp. 31 S. R. 38 East West
City/State/Zip: AMARILLO, TEXAS 79101	660 feet from S. (10) (circle one) Line of Section
Purchaser: ANADARKO ENERGY SERVICES JAN	feet from E / (circle one) Line of Section
Operator Contact Person: JOHN VIGIL	Footages Calculated from Nearest Outside Section Corner:
Phone: (806_) 457-4600 FROM CC	(circle one) NE SE (NW) SW
Contractor: Name: MURFIN DRILLING CO., INC.	Lease Name: SWALAR "B" Well #: 1
License: 30606	Field Name: WILDCAT
Wellsite Geologist: Mike Doose MAR 3 1 2003	Producing Formation: MORROW
Designate Type of Completion:	Elevation: Ground: 3184 Kelly Bushing:
New Well Re-Entry Workover	Total Depth: 6100 Plug Back Total Depth: 6030
Oil SWD SIOW Temp Abd	Amount of Surface Pipe Set and Cemented at 1729 Feet
Gas ENHR SIGW KANSAS CORPORATION COMMIS	\$\text{\$\ext{\$\text{\$\exiting{\$\text{\$\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$}\exititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}}}}}\\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{
Dry Other (Core, WSW, Expl., Cathodic, etc)	If yes, show depth set 4707 Feet
If Workover/Re-entry: Old Well Info as follows: APR 0 2 2003	If Alternate II completion, cement circulated from
Operator:	feet depth to sx cmt.
Well Name: CONSERVATION DIVISION WICHITA, KS	Drilling Fluid Management Plan Ale 1 Eur 4.8.03
Original Comp. Date: Original Total Depth:	(Data must be collected from the Reserve Pit)
Deepening Re-perf Conv. to Enhr./SWD	Chloride content 1000 ppm Fluid volume 700 bbls
Plug BackPlug Back Total Depth	Dewatering method used
Commingled Docket No	Location of fluid disposal if hauled offsite:
Dual Completion Docket No	·
Other (SWD or Enhr.?) Docket No	Operator Name:
2-24-2003 3-7-2003 3-24-2003	Lease Name: License No.:
Spud Date or Date Reached TD Completion Date or Recompletion Date	Quarter Sec Twp. S. R East West
	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 Information of side two of this form will be held confidential for a period of 12	2 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 a	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 regulat	te 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: J. Mane Lianny	KCC Office Use ONLY
Title: Fage, Treh III Date: 3-31-03	Letter of Confidentiality Attached
21 march	
Subscribed and sworn to before me this \underline{v}_{1} day of \underline{v}_{2}	West and the second second
Marin Carrie	ORI PEARSON Geologist Report Received
Notary Public: OW PEUDON	My Controsino Inoires February 26, 2005
Date Commission Expires: 2/26/05	

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Sec 18 Tup. 31 S. R. 38	Operator Name: Al	NADARKO PETR	OLEUM CORP.	Lease Nan	_{ne:} SWALAR "B'		_ Well #: _1	
tested, time tool open and closed, flowing and shurk'n pressures, whether shurk in pressure reached static level, hydrostatic pressures, botton hole blechtic Wireline Logs surveyed. Attach corn of all Electric Wireline Logs surveyed. Attach final geological well sits report. Prill Stem Tests Taken	Sec18 Twp	31 s. R. 38	East 🗸 West	County: _S	TEVENS			7
Drill Stem Tests Taken	tested, time tool ope temperature, fluid re	en and closed, flowing covery, and flow rate	g and shut-in pressures, s if gas to surface test, a	whether shut-in along with final o	pressuré reached	static level, hydro	static pressui	res, bottom hole
Samples Sent to Geological Survey		en	☐ Yes ☑ No	. [✓ Log Formati	on (Top), Depth a	nd Datum	Sample
Selectric Log Run General Council GROVE 2897 483 483 4	Samples Sent to Ge	ological Survey	✓ Yes ☐ No	1	lame		Тор	Datum
CASING RECORD	Electric Log Run	,)		C B	OUNCIL GROV HEEBNER	E	2697	487
CASING RECORD	List All E. Logs Run:	:						
Purpose of String Size Hole Size Casing Weight Depth Cement Used Modifives	CBL, DIL, CNL-	LDT, ML, SONIC		S	TE. GENEVIEVE	Ē	5852	-2668
Purpose of String Size Hole Size Casing Vertex Depth Depth Type of # Sacks Type and Percent Additives		t to the second				Li		
SURFACE 12-1/4" 8-5/8" 21.8 1729 P+MC/P+ 430/100 3%CC.1/28/K F 2%CC.1/28/K F	Purpose of String		Size Casing	Weight		1	# Sacks	Type and Percent
PRODUCTION 7-7/8" 5-1/2" 15.5 6086 50/50 POZ 25/1;70 10%SALT.6%H322; 1/4#/SK F/SAME. 10/55ALT.6%H322;								3%CC,1/2#/SK F/
ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose:	PRODUCTION	7-7/8"	5-1/2"	, 15.5	6086	50/50 POZ	25/1;70	10%SALT,.6%H322,
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. TUBING RECORD Size 2-3/8" 5646 Date of First, Resumed Production, SWD or Enhr. 3-29-2003 Estimated Production Per 24 Hours Depth Top Bottom Type of Cement #Sacks Used Type and Percent Additives #Sacks Used Type and Percent Additives Depth Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. S663-5706 (OA) TUBING RECORD 2-3/8" 5646 Date of First, Resumed Production, SWD or Enhr. 3-29-2003 Producting Method 3-29-2003 Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity 1651 Production Interval Disposition of Gas METHOD OF COMPLETION Production Interval Disposition of Gas Open Hole Perf. Dually Comp. Commingled	PORT COLLAR		}.		4707	50/50 POZ	25/120	
Perforate Protect Casing Plug Back TD Plug Off Zone Shots Per Foot PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) 6 5663-5674, 5698-5706. FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. (OA) TUBING RECORD Size Set At Packer At Liner Run Yes No Date of First, Resumed Production, SWD or Enhr. 3-29-2003 Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Production Interval			ADDITIONAL	CEMENTING /	SQUEEZE RECORD)		
Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. Depth FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. TUBING RECORD Size 2-3/8" 5646 Date of First, Resumed Production, SWD or Enhr. 3-29-2003 Producing Method 3-29-2003 Estimated Production Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Production Interval Production Interval Production Interval Vented Vented Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. Specify Footage of Each Interval Perforated (Amount and Kind of Material Used) Depth FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. FRAC: 31,000 GAL FOAM & 950 SKS 20/40 SAND. Specify Footage of Each Interval Perforated The production Interval Production Interval Dually Comp. Commingled	Perforate Protect Casing Plug Back TD	Top Bottom	Type of Cement	#Sacks Used	I	Type and Pe	ercent Additives	5
TUBING RECORD Size Set At 2-3/8" Set At 2-3/8" Date of First, Resumed Production, SWD or Enhr. 3-29-2003 Estimated Production Per 24 Hours Disposition of Gas METHOD OF COMPLETION METHOD OF COMPLETION PRAC: 31,000 GAL FUAM & 950 SRS 20/40 SAND. (OA) (OA) (OA) (OA) (OA) FRAC: 31,000 GAL FUAM & 950 SRS 20/40 SAND. (OA) (PRAC: 31,000 GAL FUAM & 950 SRS 20/40 SAND. (OA) (PRAC: 31,000 GAL FUAM & 950 SRS 20/40 SAND. (OA) (OA) (PRAC: 31,000 GAL FUAM & 950 SRS 20/40 SAND. (OA) (PRAC: 31,000 GAL FUAM & 950 SRS 20/40 SAND. (OA)	Shots Per Foot							
2-3/8" 5646	6	5663-5674, 5698-57	706.		FRAC: 31,000	GAL FOAM & 950	SKS 20/40 S	ANI). L.
2-3/8" 5646								
3-29-2003 Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity 1651 Disposition of Gas METHOD OF COMPLETION Production Interval Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled	TUBING RECORD			Packer At	Liner Run	Yes ☑ No	*	,
Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity 1651 Disposition of Gas METHOD OF COMPLETION Production Interval Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled	1	•	nhr. Producing Meth		owing Pumpi		Oth	er (Explain)
Disposition of Gas METHOD OF COMPLETION Production Interval Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled	Estimated Production		1		Water B	440		
		_				val		- > 7
					Dually Comp.	Çommingled —	566	3-5706 (OA)

HALLIBURTO	BURTON JOB SUMMARY							02/26/03			
Central Operations	0 ****	Mid Contitnen			MC/Ks			Stevens 1 A 1			
MCLI0101 106322		H.E.S EMPLOYEE NAME Danny McLan	e		PSL DEPARTMENT Cement	U	7	GIN	IAL		
cation Liberal, KS		COMPANY Anadarko Pet	roleum	Corp.	CUSTOMER REP				806-670-	0164	
ICKET AMOUNT \$9,866.31		Gas - Develop	ment	KCC	API/UWI # 15-189-22430						
VELL LOCATION NW of Hugoton, KS		DEPARTMENT Cement		1 0000	5AP BOMB NUMB 7521		Cen	ent Surfa	ace Casin	g 🔻	
EASE NAME Swalar	Well			MAR 3 1 2003	HES FACILITY (CL		L SITE)	······································		النصر	
IES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	-1 10 -313 - 30VV		HRS: FIRETIAL	Liberal, I		RS f	72 1172 m		HR	
McIane, D 106322		Burrows, R 273921		4.3 Heston, M. '10			-		ASF		
Гаte, N 105953 Archuleta, M 226383	8.0 6.5		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				-	IANA	4 000		
Berumen, E 267804	6.5							en de la composição de	7 2005		
LE.S. UNIT#S/(R/T MILES) R 420995	100		R/T	MILES 100:	12003	R/IM		100au	CINCAL	R/TMI	
10051401	100			100	12003	1 100	KKURY	1 GUNI	HDEN	FAL	
10243558 6611 54225 10011276	20 20										
Form. Name	Tvp	e:								<u>i</u>	
Form. Thickness Facker Type	rom Set	To	Date	Called Out 2/26/2003	On Location 2/26/2	on J 003	ob S	tarted 26/2003		ompleted 26/2003	
Bottom Hole Temp.	Pre	ssure									
	ot cesso	al Depth ries	Time	07:30	09:15 Well E		1:	530	<u> </u>	<u> 730</u>	
Type and Size Float Collar Insert-8 5/8	Qty	Make HOWCO	Casino	New/Used		Size Gra 8 5/8"		From G.L.+	To	Max. Allow	
Float Shoe			Liner		45 #/IL	0 9/5	╅	G.L.+	1,827	2,000	
Centralizers 41-8 5/8X12 1/4 Top Plug 5W - 8 5/8		HOWCO	Liner Tubino				-				
HEAD			Drill Pi	pe			士				
Limit clamp Weld-A	1	HOWCO	Open I Perfora			12 1/4"	-	G.L.		Shots/Ft	
Guide Shoe Reg-8 5/8" BTM PLUG	1	HOWCO	Perfora	ations							
Material			Perfora Hours	On Location	Operating	Hours		Descript	ion of Job		
Disp. Fluid	ensity Density	Lb/Gal Lb/Gal	Date 2/26	e I Hours I	<u> </u>	Hours 1.5	-	Cement	Surface Ca	sing	
Prop. Type Size Size		Lb Lb							ECEW	E D	
Acid Type Gal.		%					∃ĸ	ANSAS CO	RPORATION	4 COMMISS	
Acid Type Gal. Surfactant Gal.		% In					-				
NE Agent Gal. Fluid Loss Gal/L	h	In In						Д	PK 02	2003	
Gelling Agent Gal/L	b	In I									
Fric. Red Gal/L Breaker Gal/L	_b	ln	Total	8.0	Total	1.5	_	COM	<u>achvatio</u> l	DIVISION	
Blocking Agent Perfpac Balls	bb Gal. Qty.	/Lb		- Secretary and the secretary	7 45 2 W G W 1 4 4 7 1	11 	SE VICE SI		WICHITA	, KG	
Other	Q(y		Ordere	d	Hydraulic Avail.	1 10 111 10 11 20 20 11 12		Use	d		
Other Other			Treatin	a	Average Disp.	Rates in E	3PM	Overall			
Other Other					Cement	Left in P	ре	P.	- 12		
Juici			Feet	44.0U	Reason	Marie 1		SHOE	JOINT		
Stage Sacks Cement [TEN THE WOLLD			ment Data	K. S. P. K. K.				ALEXANDER OF THE PARTY OF THE P	Nel 14246	
1 430 lidcon Prem Plu	Bulk/S Bulk	3% CC, 1/2 #/sk FI						W/Rq. 17.98	Yield 2.94	Lbs/Gal 11.40	
2 125 Premium Plus	Bulk	2% CC, 1/4#/sk Flo	ocele					6.30	1.34	14.80	
4											
			Qi.	mmany		Fire Color	MAN CAN			CSSIC AND	
Circulating Breakdown		placement	an season di	Preflush:	BBI	5.00	-cieuVel	Type:	Wa	ıter	
.ost Returns-\	Los	XIMUM t Returns-t		Load & Bkdn: Excess /Return	Gai - BBI n BBI			Pad:Bbl Calc.Dis	p Bbl	114	
Cmt Rtrn#Bbl verage	Frac	ual TOC c. Gradient		Calc. TOC; Treatment:	Gal - BBI	Surfa		Actual D	isp.		
Shut In: Instant	5 M	in15 M i	n	Cement Slurry Total Volume	BBI	255.0 259.9		1			
rac,Ring#1	NI WAR	rac Ring #2		Frac Ring	#3	∠59.9	Fra	ac Ring#	4		
THE INFORMATION STA	ATED	HEREIN IS CORF	RECT								
CUSTOMER REPRESE	TAT	IVE			SIGNATURE					,	
					ZIZIANI VIXE			······································	····	······	

<u> '</u> UUIN	HILL.	8 4 1 2 8	ti Romat					MAR	3 1 2003		CINICIIV	· · ·
HALL	. IBU	RT	C	N.	JOB	LOG			Ī	1CKET# 2308513	TICKET DATE 02/26/03	
REGION Central Op	**			NWA / CC	UNTRY	tnent/US	6	UNIT	IDEIAIN	DA / STATE	COUNTY	
MBU ID / EMPL#				H.E.S EN	PLOYEE N	IAME)A			MC/KS PSL DEPARTMENT	Stevens	
MCLI0101 LOCATION	1(6322		Dani		<u>Lane</u>				Cement CUSTOMER REP / PHONE		
Liberal, KS	<u> </u>	·		Anac	larko	Petrole	<u>um</u>	Corp). I	Kenny Parks	806-670-01	164
TICKET AMOUNT \$9,866.31				WELL TY		as - Deve	elor	omen		PI/UWI # 15-189-22430		1
WELL LOCATION	roton V			DEPARTM	MENT					OB PURPOSE CODE	Oi	
NW of Hug	JOLOII, K	Well		Cem SEC/TW	P/RNG				H	IES FACILITY (CLOSEST TO	nent Surface Casing	
Swalar ES EMP NAME/EMP # (EX	ADOCUME HOUSE		3-1	18 -3 ES EMP NAME/EN	18 - 3		UDG	V50 51 51	AME/EMP # (EXPOSURE	Liberal, KS		
Mclane, D 1				Burrows			HRS 6.5		on, M. 10		HRS HES EMP NAME/EMP # (EXPOSURE HOURS)	HRS
Tate, N 1059			;	34110113	, 11 2.1	JJZ 1		Ticat	OII, W. 100	5220		$\dashv = \mid$
Archuleta, I			6.5				H		5			+
Berumen, E			6.5				H		=			+= $ $
berumen, E	20/004		0.5 0.4 C		What (1939	NATE OF SOM	11.50	THEN	Creating and			/3/40/51e84/
Chart	Time	Rate	Ħ.	Volume	Rate	Press	s.(P	SI)		Job E	escription / Remarks	
No.		(BPM)		BBL)(GAL)	N2	CSG.		Tbg				
02-26-03	07:30	500000000000000000000000000000000000000			10 15 Jan 2 ()	100000000000000000000000000000000000000		1.10 A-2008 (14	Called Out.	Job ready 10:30)	c. 00040-10-400
	09:45									·····	ment & Cement Head	
				- Alexandrian	eton - 0				Rig drilling	@ 1744'		
	10:30			R	ELI	LASE	D)		Cement pu	mp truck & crew	on location.	
			\perp		0.00.50	8	_		Conduct R	ig Up Safety Hud	dle	
	11:15		_		AN U	4 2005	<u> </u>		Bulk trucks	on location		
	11:20		\bot		ļ		<u> </u>			of 1829'. Circula		
	11:50			ROM	CO	HFIDEN	IT	AL		f hole with Drill P	ipe	
	1300		+			01 000	L		 	3 inch collars		
	1320 1330		+		<u> </u>	 	_		Drill pipe o			
	1345		+				<u> </u>		 	meeting and rig		
	1309		十		-	 	 	······································	 		nd float equipment up plug container	
	1512		十		<u> </u>	<u> </u>	_	1	 		ulate hole and break out	
			1			†		************	fill tube in i		diate fiole and bleak out	
	1520		十							turns and rig do	wn casing crew	
	1527									rculating with rig		
	1528									Halliburton		
									Job proced	lure for 8 5/8 surf	ace pipe	
	1529		\perp			0/3000	<u> </u>		Pressure te	est lines	RECEIN	1210
	1530	2.0	_	5.0		0/70				water spacer	KANSAS CORPORATIO	N COM
	1532	5.5	_	225.2	ļ	70/180	<u> </u>			ement @ 11.4 #/c		
	1613	5.5	-	29.8		185	<u> </u>		 	ment @ 14.8 #/ga	APR 02	2007
	1618 1619		+			 	├		 	ixing cement		<u> </u>
	1621	5.5	+	114.2		0/100	├─			and release top		I muie
· · · · · · · · · · · · · · · · · · ·	1629	<u> </u>	+	7.4		100/150	\vdash			water displacement caught cemen	127777777777	
	1640	2.5	十			440/360	 		Slow down		IL	
' I			+			480/810	 			and pressure u	o casing	
<u> </u>	1646						\vdash		Release pre		r	——
	1646 1647		十			810/0						
			-			810/0	-		 	and release truck	S	
	1647					810/0			 		S	
	1647					810/0			 	and release truck	ed 80 Bbls to pit	
	1647					810/0			 	and release truck		
	1647					810/0			 	and release truck Circulat		

HALLIBURTO	N J(OB SI	JMM	IAR	Y			MBER 6703		3/06/03		
REGION -	EGION - INVA/COUNTRY Central Operations Mid Contitnent/USA								BDA / STATE COUNTY MC/Ks STEVENS			
BUID/EMPL# MCL10103 212723 H.E.S. EMPLOYEE NAME JERRAKO EVANS							PSI DEPARTMENT Cement					
OCATION	AITIN	COMPANY			P*; :==	000000	CUSTOMER REP /	PHONE	HUIN	AL	240:	
LIBERAL UNFILE	T OUN IDENTIFIED						API/UWI#	PARKS	8	<u> 679-6</u>	0164	
\$6,903.23		01 Oil		····		1700	SAP BOMB NUMBI	:D		THE STATE OF THE S	market and the second s	
WELL LOCATION DEPARTMENT CEMENT						KUU	7523		ement Produ	ction Cas	sing 🚽	
LEASE NAME Well No. SEC / TWP / RNG SWALAR B-1 18 - 31s - 38w					MA	R 3 1 200	HES FACILITY (CL	OSEST TO WELL SI	ITE)			
HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS				HRS	18 .0 1 2 0 0 12.		HRS			HRS	
Evans, J 212723	7.0				CON	FIDENTIA	<u> </u>					
King, K 105942 Ferguson, R 106154	7.0			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7914	1 16/1-14/1//	# Bow		KELEA	SED		
					Ҵ				lario L	AAAN		
	T MILES			R/	T MILES		·	R / T MILES	, JAN U 7	ZUUD	R/T MILE	
	00							FRA	MONE			
10240236-10240245	20								MOUNT	UENII	AL.	
				<u> </u>								
Form. Name Form. Thickness Fr	_Type: om	То		Г	Called		On Location	on Jol	o Started	Job Co	mpleted	
Packer Type Bottom Hole Temp.	Set At Pressu			Date		/6/2003	3/6/20		3/7/2003		7/2003	
Retainer Depth	Total [Depth		Time	2	2000	2400		0545	07	00	
Tools and Acc	essorie	s ·		A Company)ata		193,8218	rain da Tillia Parte da Valer da	
Type and Size (Float Collar SS	Qty 1 HO	Make WCO		Casin	a	New/Used NEW	Weight 15.5	Size Grade 5 1/2	From 0	To 6.096	Max. Allow	
loat Shoe SS	1 HO	WCO		Liner								
Centralizers S-4 Top Plug ALUM		WCO		Liner Tubin	<u></u>							
HEAD 5 1/2	1 HO	WCO		Drill P	ipe							
_imit clamp PORT COLL Weld-A	1 BA	KER		Open	Hole			7 7/8		6,100	Shots/Ft.	
Guide Shoe CAN BASK		WCO			rations rations				 			
BTM PLUG	CONT. ELEVANA	AGGERT FINISH RALWESS	THE COLUMN ASSESSMENT	Perfo	rations		1 COMPANIES AND			he without or and the	ports of supplies to the	
	nsity		/Gall	Hours Da	te	cation Hours	Operating Date	Hours Hours	1			
Disp. Fluid De Prop. Type Size	ensity	Lb Lb	/Gal	3/		1.0 7.0	3/7	1.5	Cement P			
Prop. TypeSize		Lb		<u></u>	<u>_</u>	7.0			PORT CO TOP OF J		1/18 F I	
Acid TypeGal. Acid Type Gal.		%							- 0	ECEN	ED -	
Surfactant Gal.		_/0 _In							K ANSAS CO	RPORATIO	M COMMINS	
NE Agent Gal. Fluid Loss		_in 		<u> </u>								
Gelling Agent Gal/Lb)	-"' In							- A	PR 02	2003	
Fric. Red Gal/Lb Breaker Gal/Lb	₹	<u> </u>		Total	84. F. 20	8.0		4 5				
Blocking Agent	Gal/Lb	_In		Total	SWELLOW TO	0.0	Total	1.5	CUNI	SERVATIO	N DIVISION	
Perfpac Balls Other	Qty.			0-4-	ad			Horsepow	er i	WICHITA		
Other				Order	eu		Avail. Average	Rates in BF	Used M			
Other				Treati	ng		Disp.	included one one load year.	Overall			
Other				Feet	45		Cemen Reason	t Left in Pip	e SHOE	TAIOL		
		· · · · · · · · · · · · · · · · · · ·	I	<u> </u>								
			WARES!			Data				Market A.		
Stage Sacks Cement B 1 25 50/50 POZ H	ulk/Sks		GEL - 10	Additiv 0% SAL		% HALAD-32	2 - 1/4# FLO	CELE	W/Rq. 40.45	Yield 6.07	Lbs/Gal 10.00	
2 170 50/50 POZ H		2% TOTAL	GEL - 10	0% SAL	T - 6/10	% HALAD-32	2 - 1/4# FLO	CELE	5.58	1.26	14.40	
3 25 50/50 POZ H		12% TOTAL	GEL - 10	u% SAL	т - 6/10	% HALAD-32	2 - 1/4# FLO	CELE	5.58	1.26	14.40	
Dirculating (Diami		P. P. S.	Si	ımmary					EVER W		
Breakdown	MAXIN	cement //UM			P	reflush: oad & Bkdn:	BBI		Type: Pad:Bbl -			
_ost Returns-\ Cmt Rtrn#Bbl		eturns-N	14.11		E	xcess /Retur			Calc.Disp	Bbl	777	
Average	Frac. 0	Gradient			TI	alc. TOC: reatment:	Gal - BBl		Actual Disp:Bbl	sp.	144	
Shut In: Instant	_5 Min.		15 Min		c	ement Slurry	/ BBI	70.7				
rae Ring #1	Fr	ac Ring # 2	1874/161		10	otal Volume Frac Ring	DDI #3	214.70	Free Ring #	4		
THE INFORMATION STA	TED H	EREIN IS	CORR	ECT	алын 18 <u>- 176 - 56 (648).</u>	A TO STREET, ONLY BELLEVILLE	1. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,	A BORNE CONTRACTOR STATE	arakar e e e e e e e e e e e e e e e e e e e	
CUSTOMER REPRESEN												
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GION			NWA / CO	UNTRY			Ü.	BDA / STATE	COUNTY	
entral Or BUID/EMPL#			H.E.S EN	IPLOYEE N		<u>н</u>		MC/Ks PSL DEPARTMENT	STEVEN	S
1CL10103 CATION	212723		JER		EVANS			Cement CUSTOMER REP / PHONE		
IBERAL EKET AMOUNT				DARK	O PETR	OLEUM		KENNY PARK	<u>s</u>	806-679-016
6,903.23					01 C)il				
ELL LOCATION ERMONT	г, кѕ		CEM					JOB PURPOSE CODE Ceme HES FACILITY (CLOSEST TO	nt Production	on Casing
ASE NAME WALAR		Well No B-		/P/RNG 31s - 3	8w			HES FACILITY (CLOSEST TO LIBERAL, KS	WELL S	
S EMP NAME/EMP # (E)		HR	S HES EMP NAME/EI	MP#(EXPOSI	RE HOURS)	HRS HESEMP NA	ME/EMP#(EXPOSUR		RS HES EMP NAME/EMP #	(EXPOSURE HOURS)
vans, J 21							<u> </u>		4	
ing, K 105		7					5			
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Chart	Time	Rate	Volume	Rate	Press	s.(PSI)		Job D	escription /	Remarks
No.		(BPM)	(BBL)(GAL)	N2	CSG.	Tbg	7.			
	2400			<u> </u>	ļ		JOB REAL			
	2000		CZ90.	1955 6 62	AAAA	20	 	OUT FOR JOB		
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	2300 2315			20 27	4 2005		RIG UP TE	UCK ON LOCATIO	N/ JOB SITE A	SSESMENT
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							RIG PULL		OLES.	9% 557 .6% 200 0 1
	0030		FROM	CON	FIDEN	TIAL	RIG PULL	RAT & MOUSE H		PECELL NSAS CAPRADATIO
	0030 0045		ROM	CON	FIDEN		RIG PULL RIG UP C		KAI	RECEN NSAS CORPORATIO
			FROM	CON	FIDEN		RIG PULL RIG UP CA PRE-JOB	RAT & MOUSE HO ASING CREW	KAI	NSAS CORPORATIO
	0045		ROM	CON	FIDEN		RIG PULL RIG UP CA PRE-JOB START RI	RAT & MOUSE HO ASING CREW SAFETY MEETING	KAI 3 4 FE (5 1/2)	RECEIN NSAS CORPORATIO
	0045 0100 0425		ROW	CON	FIDEN		RIG PULL RIG UP CA PRE-JOB START RU FILL CASI	RAT & MOUSE HO ASING CREW SAFETY MEETING UNNING CASING 8	KAI 3 4 FE (5 1/2) HOLE	APR 02
	0045 0100 0425 0435		FROM	COñ	FIDEN		RIG PULL RIG UP CA PRE-JOB START RI FILL CASI CASING C	RAT & MOUSE HO ASING CREW SAFETY MEETING UNNING CASING & ING HALFWAY IN	KAI FE (5 1/2) HOLE FT)	APR 02 CONSERVATION
	0045 0100 0425		FROM	CON	FIDEN		RIG PULL RIG UP CA PRE-JOB START RI FILL CASI CASING C HOOK UP CIRC WIT	RAT & MOUSE HO ASING CREW SAFETY MEETING UNNING CASING & ING HALFWAY IN ION DN BOTTOM (6096 PLUG CONT & CII H RIG PUMP	KAI FE (5 1/2) HOLE FT) RC IRON	APR 02 CONSERVATION WICHITA
	0045 0100 0425 0435 0445			CON	FIDEN		RIG PULL RIG UP CA PRE-JOB START RI FILL CASI CASING CHOOK UP CIRC WITT	RAT & MOUSE HO ASING CREW SAFETY MEETING UNNING CASING & ING HALFWAY IN I ON BOTTOM (6096 PLUG CONT & CII H RIG PUMP H CIRC/ HOOK UP	KAI FE (5 1/2) HOLE FT) RC IRON	APR 02 CONSERVATION WICHITA
	0045 0100 0425 0435 0445	2.0	FROM 5.6	CON			RIG PULL RIG UP CA PRE-JOB START RI FILL CASI CASING C HOOK UP CIRC WITT THROUGH PLUG RA	RAT & MOUSE HO ASING CREW SAFETY MEETING UNNING CASING & ING HALFWAY IN I ON BOTTOM (6096 PLUG CONT & CII H RIG PUMP H CIRC/ HOOK UP T & MOUSE HOLE	KAI FE (5 1/2) HOLE FT) RC IRON	APR 02 CONSERVATION WICHITA
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	0045 0100 0425 0435 0445 0545 0552 0555 0602	6.0	5.6 27.0 38.0	CON	4000 0-200 200		RIG PULL RIG UP CA PRE-JOB START RI FILL CASI CASING C HOOK UP CIRC WIT THROUGH PLUG RAT TEST LINI START MI START MI THROUGH DROP PLU START DI	RAT & MOUSE HOASING CREW SAFETY MEETING UNNING CASING & ING HALFWAY IN IT ON BOTTOM (6096 PLUG CONT & CII H RIG PUMP I CIRC/ HOOK UP I & MOUSE HOLE IS IXING LEAD CMT (IXING TAIL CMT (IXING TAIL CMT (IXING SP WITH FRESH VIXING CMT (IXING SP WITH FRESH VIXING CMT)	KAP FE (5 1/2) HOLE FT) RC IRON TO PUMP TRU S @ 10# @14.4# ASH PUMP & 1	APR 02 CONSERVATION WICHITA
	0045 0100 0425 0435 0445 0545 0552 0555 0602 0610 0612 0632 0636 0640	6.0 6.0 6.0	5.6 27.0 38.0	CON	4000 0-200 200		RIG PULL RIG UP CA PRE-JOB START RI FILL CASI CASING C HOOK UP CIRC WIT THROUGH PLUG RAT TEST LINI START MI START MI THROUGH DROP PLU START DI DISP CAU	RAT & MOUSE HOASING CREW SAFETY MEETING UNNING CASING & ING HALFWAY IN ION DN BOTTOM (6096 PLUG CONT & CII H RIG PUMP I CIRC/ HOOK UP I & MOUSE HOLE ES IXING LEAD CMT (IXING TAIL CMT (IXING	KAP FE (5 1/2) HOLE FT) RC IRON TO PUMP TRU S @ 10# @14.4# ASH PUMP & 1	APR 02 CONSERVATION WICHITA
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HALLIBURT	ALLIBURTON JOB SUMMARY						2328551			03/10/03			
Central Operations		NWA/COUNTRY Mid Contitne				BDA / STATE MC/Ks			COUNTY STEVENS				
MBU ID / EMPL # 106322	2	H.E.S EMPLOYEE NAME Danny McLa	ne			PSL DEPARTMENT Q C \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
LIBERAL OOMETIDE		COMPANY ANADARKO PE		CORPO	RATION	CUSTOMER REP ASSOCIATION SOCIETY SOCIE					0464		
FICKET AMOUNT \$7,230.19	NIHL	WELL TYPE 01 Oil	INOLLOW	OOKI O	KATION	API/UWI #							
WELL LOCATION		DEPARTMENT		.	15-189-22430 SAP BOMB NUMBER 14000 Recement								
Dermount,Ks LEASE NAME	Well No.	Cement SEC / TWP / RNG	Α.	AAD 3	1 2003	14099 Recement							
SWALAR HES EMP NAME / EMP#/ (EXPOSURE HOURS)		18 - 31s - 38v	v ga		1 2003	Liberal							
Mclane, D 106322	HRS 5.5		(3(HRS	ENITAL		HF	RS T	Table states to the second of	A 450 Smarr	HRS		
Tate, N 105953	5.5		(2)		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ä	RELEA	ISE	3)		
Heskett, T 271073	5.5			+		M		+	1AN 11 4	2005			
H.E.S. UNIT#S / (R / T MILES)	R/T MILES		R/	T MILES			R/TMI	LES	JAN 11 A	4440	R/T MILES		
420995 10251401	100							De VM	A CONF	BEAR WA	n û <i>r</i> i û		
10011748 10011278	20							ZAN	MUUME	LEN			
Form Nome	<u></u>												
Form. Name Form. Thickness	Type:	To	<u> </u>	Called	Out	IOn Location	on IJ	ob Si	tarted	JJob Co	ompleted		
Packer Type Bottom Hole Temp.	Set At Pressu		Date	3/1	0/2003	3/10/2	003		10/2003	3/1	0/2003		
Retainer Depth	Total F)enth	Time	05	500	0830			930	14	100		
Tools and Type and Size	Accessories Qtv	s Make			New/Used	Well I	Data ISize Grad	_	From I	To	IMax. Allow		
Float Collar			Casing	g	Trem/oscu	15.5	5 1/2	ue	0	10	IVIAX. AHOW		
Float Shoe Centralizers	 		Liner Liner										
Top Plug			Tubing				2 3/8		0	4,707			
HEAD Limit clamp	+		Drill Pi Open			<u> </u>	7 7/8				Chata/Et		
Weld-A			Perfor	ations			1770				Shots/Ft.		
Guide Shoe BTM PLUG	 		Perfor Perfor										
Mate Mud Type	rials Density	Lb/Gal	Hours	On Loc	ation	Operating	Hours		Descriptio	n of Job			
Disp. Fluid	Density	Lb/Gal	Dat 3/1	Ö T	Hours	<u>Date</u> 3/10	Hours	╣.	Recement	CFIV	- D		
	ze ze	Lb			-				ANSAS CORF	ORATION	COMMISSIO		
Acid Type Ga	al.	%						_					
Acid Type Ga		%					ļ	-	-API	702	2003		
NE Agent Ga Fluid Loss Ga		In						4			2.000		
Gelling Agent Ga	al/Lb	In						\dashv	CONSE	RVATION	DIVISION		
Fric. Red. Ga	al/Lb al/Lb	in	Total	DETECT		Total		7		VICHITA			
Blocking Agent	Gal/Lb			A 667 (1)		7 - Learner and 3 - 2 Tell 2		I			يهمسر ورد ورد و د		
Other	Qiy.		Ordere	ed		Hydraulio Avail.	Horsepo	wer	Used				
Other			Treatin			Average Disp.	Rates in E	PM		· · · · · · · · · · · · · · · · · · ·			
Other				<u>.</u>	······································	Cemen	Left in Pi	pe	Overall		l		
Other	· · · · · · · · · · · · · · · · · · ·		Feet			Reason			SHOE J	OINT			
	7-16-1-20-c		Ce	ement D	ata								
Stage Sacks Cement 1 25 50/50 POZ H	Bulk/Sks	2% TOTAL GEL -	Additive	es					W/Rq.	Yield	Lbs/Gal		
2 120 50/50 POZ H	Bulk	2% TOTAL GEL -	10% SALT	Γ - 6/10%	HALAD-322	- 1/4# FLOO	CELE		40.45 5.58	6.07 1.26	10.00 14.40		
3 4		AFTER CEMENT	JOB - WIL	L RUN 1	TUBING TO I	BOTTOM A	VD CIRCUL	ATE					
				······································									
Circulating	Displac	ement	Su	mmary	flush:	BBI	5.00						
Breakdown Lost Returns-\	MAXIM	IUM		Loa	d & Bkdn:	Gal - BBI	3.00		Type: Pad:Bbl -G				
Cmt Rtrn#Bbl	Actual				ess /Returr c. TOC:	n BBI			Calc.Disp Actual Disp	Bbl	18.2 17.5		
Average Shut in: Instant		Fradient 15 M	lin /	Tre		Gal - BBI	27,2	7	Disp:Bbl	· I			
			1	Tot	al Voluma	' וםם	#WALLI	E!	L				
Frac Ring #1 THE INFORMATION S	TATED DE	CKING#Z	PECT		Frac Ring	#3		Fra	c Ring #4				
CUSTOMER REPRES			KEU I										
		-	¥-7,			SIGNATURE							

HALL REGION	.IBU		O N INWA	JOB	LOG	JUNFIL	JEN I IML	2328551 BDA / STATE	03/10/03
Central O	<u>perations</u>	s	Mic	l Conti	tnent/US	SA .		MC/Ks	STEVENS
MBUID/EMPL# MCLI0101	4 5 mms -	106322	•	EMPLOYEE N				PSL DEPARTMENT Cement	
LIBERAL	COMPANY							CUSTOMER REP / PHONE	70 000 070 0404
TICKET AMOUNT	DIVI		WELL	TYPE			CURPU	RENNY PARK	S 806-679-0164
\$7,230.19 WELL LOCATION		····	DEPA	TMENT	01 (<u> Dil</u>	***************************************	15-189-22430 JOB PURPOSE CODE	
Dermount	,Ks		Ce	nent					Recement
LEASE NAME SWALAR		Well N		WP/RNG 31s - 3	8w			HES FACILITY (CLOSEST TO LIBERAL KS	OWELLS TO THE OWNER OF THE OWNER OWNE
HES EMP NAME/EMP # (E)	(POSURE HOURS)	HR	S HES EMP NAM	JEMP # (EXPOSI	JRE HOURS)	HRS HES EMP N	IAME/EMP # (EXPOSU		HRS HES EMP NAME/EMP # (EXPOSURE HOURS) # HRS
Mclane, D 1	106322	5.5	5						JAN 9 7 2003
Tate, N 105	953	5.6	5						
Heskett, T 2	271073	5.6	i						TROW CONFIDENTIAL
2.	<u> </u>	Rate							
Chart	Time		Volum	14 A CO. C. C. C.	CASH COMPONENT	s.(PSI)	4	Job D	escription / Remarks
No.	0500	(BPM)	(BBL)(GAL)	N2	CSG.	Tbg			
	0500 0830		 				Called for		
	0030					<u> </u>			ssment. Bring Halliburton
			-				Halliburto		ety meeting and set up
			_		 			dure for port colla	
	0951	1.5	4.0			0/2500		test lines and port	
	0955		 	<u> </u>		2500/0		ressure and open	
****	0956							to open tool	port contai
	0959	1.0	1.0			0/1200	 	ection rate	
	1001						 	to open tool	RECEIVED
	1004	1.0	1.0			0/1200	Try for inj	ection rate	KANSAS CORPORATION COMMI
	1006						Tool man	to open tool	100
	1008	1.0	ļ			0/1200	Try for inj	ection rate	APR 0.2 2003
	1010		ļ				Tool man	to open tool	
	1011		-			0/1200		ection rate	CONSERVATION DIVISION
	1012		_					to open tool	WICHITA. KS
	1014 1016		<u> </u>	-		0/1200	Try for inj		
	1018		30.0			500/4000		to open tool	
	1018		30.0	-		auu/1000	Got an inje		an beek side
	1043	•	 	-				and check valve	
	1049	2.5	27.0	1		0/500		cement @ 10 #/gal	
	1100	2.5	27.0			290		ement @ 14.4 #/ga	
	1107							nixing cement	
	1111		17.5			400/1000		water displaceme	ent
	1119							and close port co	
	1122						T	est to make sure p	
	1124						Knock los	se and run in 2 joir	nts of tbg
	1136	3.0	24.0		0/900		Reverse o		
	1144		 					and rig to run tbg	
	1222	3.0	150.0	-		0/750		vell with treated wa	
	1330		 	+			Shut down	and release truck	(S
				-				T	
		**	 	+					or calling Halliburton
			<u> </u>				<u> </u>	Danr	ny and Crew