

15-051-19205-0001

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

Operator: License # 5229

Name: Phillips Petroleum Company

Address Route 3, Box 20A

City/State/Zip Great Bend, KS 67530

Purchaser: N/A

Operator Contact Person: Jim Arroyo

Phone (316) 793-8421

Contractor: Name: N/A

License: N/A

Wellsite Geologist: N/A

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, MSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: Phillips Petroleum Company

Well Name: Baumer B No. 12

Comp. Date 9/01/37 Old Total Depth 3392'

Deepening Re-perf. Conv. to Inj SWD

Plug Back PSTD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. D-26,883

6-11-94

7-13-94

Spud Date OF START OF WORKOVER _____ Date Reached TD _____ Completion Date OF WORKOVER _____

API NO. 15- Docket #D26883

County Ellis

NW NE NE Sec. 27 Twp. 11S Rge. 17 X E

330 Feet from S (circle one) Line of Section

990 Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner: NE SE, NW or SW (circle one)

Lease Name Baumer B SWD System Well # D12

Field Name Bemis Shutts

Producing Formation Arbuckle

Elevation: Ground 1925' KB 1928'

Total Depth 3782' PSTD _____

Amount of Surface Pipe Set and Cemented at 1137 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cat.

Drilling Fluid Management Plan REWORK 09 N/A
(Data must be collected from the Reserve Pit) 3-22-95

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

ORIGINAL

RWP
3-22-95

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 [Signature]

Title Great Bend Area Superintendent Date _____

Subscribed and sworn to before me this 24th day of August 19 94.

Notary Public Carla M. Yahr

Date Commission Expires 10-23-96

NOTARY PUBLIC - State of Kansas
CARLA M. YAHR
My Appt. Exp. 10-23-96

E.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
XCC Distribution 8/25 SWD/Rap _____ NGPA
KGS _____ Plug _____ Other _____
(Specify)

Operator Name Phillips Petroleum Company Lease Name Baumer B SWD System Well # D12

Sec. 27 Twp. 11S Rge. 17 East West County Ellis

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 type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No	Anhydrite	1136'	(792')
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	2845'	917'
List All E.Logs Run:		Lansing-Kansas City	3110'	1182'
		Simpson Shale	3372'	1444'
		Arbuckle	3381'	1453'

CASING RECORD <input 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
Conductor		16"	70#	32'		45	
Surface	12 1/4"	10 3/4"	40#	1137'		425	
Production	7 7/8"	7"	24#	3382'		175	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate	2853' - 3148'	40/60 Pozmix	575	2% Gel, 3% CC, 5# Gilsonite
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input checked="" type="checkbox"/> Plug Off Zone				

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	
O.H.	3382' - 3782'		Top 100' of O.H. Treated w/ 8,000 gal Injectrol "G"	

TUBING RECORD	Size Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	4 1/2" SealTite 3358'	3358'		
Date of First, Resumed Production, SWD or Inj.	8/02/94	Producing Method	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)	
Estimated Production Per 24 Hours	Oil N/A	Sbls.	Gas Mcf	Water Sbls. Gas-Oil Ratio Gravity

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: 3382' - 3782'

15-051-19205-0001

Log information as correlated from samples by W. J. Allen, Geologist.

0	10	Cellar
10	38	Shale and shells
38	700	Shale and shells
700	775	Sand
775	945	Shale and shells
945	985	Sand and shale
985	1120	Shale and Red bed
1120	1125	Chalk
1125	1134	Anhydrite
1134	1165	Anhydrite
1165	1500	Shale and shells
1500	1605	Salt
1605	1810	Shale and shells
1810	1830	Lime
1830	1870	Shale
1870	1918	Shale and shells
1918	1940	Shale
1940	1985	Broken Lime
1985	2010	Shale
2010	2060	Lime
2060	2111	Sand and shale
2111	2415	Shale and Lime
2415	2430	Shale and shells
2430	2460	Lime and shale
2460	2533	Shale and shells
2533	2620	Shale and Lime
2620	2695	Shale and shells
2695	2732	Shale and Lime
2732	2845	Shale and shells
2845	2874	Lime, Topeka
2874	2917	Lime and Shale streaks
2917	3098	Lime
3098	3350	Lime, K.C.
3350	3378	Lime and shale
3378	3381	Shale
3381	3392	Lime, Silicious - Pay
3392		Total Depth

1136	Top Anhydrite
2285	Top Neva
2605-2615	In Tarkio-show oil saturation
2845	Top Topeka
2850-2880	Show oil saturation
2915-2935	" " "
3045-3060	" " "
3110	Top Lansing-Kansas City
3110-3120	Show oil saturation
3140-3170	" " "
3200-3230	" " "
3260-3300	" " "
3325-3360	" " "
3370-3372	" " "
3372	Top Simpson
3377-3378	Simpson sand xxx show oil saturation
3381	Top silicious lime

ORIGINAL

BAUMER B SWD SYSTEM #D12

16" 70 lb/ft
@ 32'
w/ 45 sx cnt

10 3/4" 40 lb/ft
@ 1137'
w/ 425 sx cnt

7" 24 lb/ft
@ 3382'
w/175 sx cnt

spud: 8-09-37
comp: 9-01-37

ELEVATIONS:
GL 1925'
KB 1928'

ORIGINAL

Csg Leak 2618'-22'
Sqzd w/ 400 sx
8/90

TDC Unknown

4-1/2" SealTite
Tbg. @ 3358'

Topeka Perfs:

2853'-61' 8/90 Sqzd 7/94
3030'-38' 8/90 Sqzd 7/94
3050'-56' 8/90 Sqzd 7/94

Lansing-Kansas City Perfs:

3143'-48' (C) 9/90 Sqzd 7/94

Guiberson Pkr. @ 3358'

Arbuckle D.H.:

3382'-3782'

7/94 Top 100' of D.H. Treated
w/ 8,000 Gal Injectrol 'G'

7/94 Drilled from 3392' to 3782'

TD 3782'



OPERATOR PHILLIPS PETROLEUM COMPANY	
WELL NAME Baumer B SWD System	WELL NO. D12
FIELD Bemis-Shurts	
COUNTY Ellis	STATE Kansas
LOCATION NW NE NE Sec. 27-T11S-R17W	DATE 07/15/94

WELL DATA

FIELD Beaumont Shale SEC. 27 TWP. 11c RING. 17w COUNTY Ellis STATE KS

FORMATION NAME Topok 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 Expert SET AT 2515
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA CTBPC 3340 TOTAL DEPTH 3392

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			7	0	3392	
LINER						
TUBING			2 7/8	0	2515	
OPEN HOLE						SHOTS/FT.
PERFORATIONS			2853-3056			
PERFORATIONS			3143	3143		
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

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

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-13</u>	DATE <u>6-13</u>	DATE <u>6-13</u>	DATE <u>6-13</u>
TIME <u>0600</u>	TIME <u>0840</u>	TIME <u>0915</u>	TIME <u>1600</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>E Palmberg 41487</u>	<u>41227</u>	<u>Days</u>
<u>G Blessing 52160</u>	<u>51143</u>	<u>Days</u>
<u>M Gantt R 1231</u>	<u>76102</u>	<u>Days</u>
	<u>51252</u>	<u>Days</u>

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.
 PERFPAC BALLS TYPE _____ QTY.
 OTHER _____

DEPARTMENT Cement
 DESCRIPTION OF JOB 50-2525 Perforations

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X R K. [Signature]

HALLIBURTON OPERATOR E Palmberg COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	250	40160 Perma-A	A	B	2% Gel	1.25	14.9
1	100	40160 Perma-A	A	B	No Gel	1.09	14.9
2	225	40160 Perma-A	A	B	2% Gel	1.27	14.9

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET 635 REASON TO BE DRILLED

SUMMARY

VOLUMES

PRESLUSH: BBL.-GAL. _____ TYPE _____
 LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
 TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 14.5
 CEMENT SLURRY: BBL.-GAL. 75 50
 TOTAL VOLUME: BBL.-GAL. _____

REMARKS

END JOB LOG
Thank you
Don, Nancy, Mike

CUSTOMER Phyllis Peterson
 LEASE Rawmer 8 acre Shwell No. 0-12
 JOB TYPE SAGE 222

JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
P.H. C.		D-12		Baumer R. ind SYSTEM		SQUEEZE		621611	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0600							Called out	
	0840							On location safety mtg discuss job P.A.C 2515'	
1	0918						300	Pressure Annulus	
1	0920	4 1/2				250		Injection Rate	
1	0935	5				350		Start mixing CEMENT 250 sks 40/60 Pozmix A 27 gal	
								100 sks 40/60 Pozmix A no gal 32 gal	
1	0950	-	75					Cement mixed Wash out pump & line	
1	0955	2				0		Start displacement	
1	1005	2	10			0		Hesitate Squeeze Wash up Equipment well on vacuum	
			16	out				ON VACUUM CMT BELOW TOOL	
1	1045		26	out				CEMENT SCANNED OUT	
1	1050	2 1/2				300		Pump Cement out	
1	1053	4 1/4				450		Injection Rate	
1	1100		15				100	Release Packer Pump down annulus	
1	1110						300	Reset packer Pressure Annulus	
1	1110	3	15			200		Injection Rate Order cement	
1	1300							Cement on location	
2	1320	2 1/2				200		Injection Rate	
2	1325	3				0		Start mixing cement	
2	1332	3	40			500		Formation shutting off	
2	1347	2	50			500		Stop mixing cement Used 225 sks 40/60 Pozmix A 27 gal 5# Gilsomite	
2	1350							Wash out pump & line	
	1352							Start displacement	
2	1353					1000		SQUEEZE Wash up Equip.	
2	1400					1000		Repressure Squeeze	
2	1405					300		Open Tool - Circ cmt out long way	

Continued



JOB LOG HAL-2713-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Phillips Pet Co		D-12		Bamber B SWD		SQUEEZE		621611	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		SYSTEM	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
									Cement out of hole
2	1442		120			300			was circulated clean
									Release packer
2	1445						150		Circulate well short way
2	1455		20				150		Tbg clean
									Pull 4 sts
									Pkr @ 2400'
2	1505						300		Pressure Annulus
2	1508					500			Pressure Squeeze
2	1516								Close in @ well head
									Rack up equip
									Job completed
									T.O.C. 2515'
									USED:
									250 sks 40/60 Pozmix A 27% Gel
									100 sks 40/60 Pozmix A NoGel 3% CC
									225 sks 40/60 Pozmix A 27% Gel
									5# Gilsomite 1sk
									65 sks circ to pit
									100 sks in csg to be drilled
									400 sks through perforations
									Thank you,
									Dail, Gary & Mike

WELL DATA

FIELD _____ SEC 27 TWP. 11^S RING. 17^W COUNTY Ell. STATE K5

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	4		7"	G.L.	3200	
LINER						
TUBING	11		2 7/8"	G.L.	3262	
OPEN HOLE				3382	3432	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-22-94</u>	DATE <u>6-22-94</u>	DATE <u>6-22-94</u>	DATE <u>6-22-94</u>
TIME <u>0600</u>	TIME <u>1020</u>	TIME <u>1100</u>	TIME <u>1430</u>

TOOLS AND ACCESSORIES

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

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>L Dunkl B2150</u>	<u>P.U. 40287</u>	<u>Hays K2</u>
<u>R Bowen 57220</u>	<u>P.T. 51374</u>	<u>Hays K2</u>
<u>K Rich Moore 59734</u>	<u>P.T. 51143</u>	<u>Hays K2</u>
<u>M. Ganat B1031</u>	<u>Transport 3846-50142</u>	<u>Hays K2</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE 4000 GAL Injectral G %
 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 Injectral G.

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X D. S. 10

HALLIBURTON OPERATOR Long Dunkl COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.

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. 4000 DISPL. BBL.-GAL. 10
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. _____
 HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
 ORDERED _____ AVAILABLE _____ USED _____ REMARKS _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET _____ REASON _____

CUSTOMER Phillips 66
 LEASE Baumer
 WELL NO. D-12 Sudd
 JOB TYPE Injectral G
 DATE 6-22-94

JOB LOG FORM 2013 R-4

CUSTOMER: *Phillips Petroleum* WELL NO.: *D-12 SWD* LEASE: *Brewer* JOB TYPE: *Injector/G.* TICKET NO.: *621757*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T.	C.	TUBING	CASING	
1	0 20							On location set up truck & discuss job Rig Running tbg & packer PKR at 3200, Tail Pipe at 3262 Open Hole from 3322-3432 Hold Safety Meeting. MAX PSI well start at 1500 PSI
	11 00					2500		Pressure test Lines to well head OK
	11:09	2				600		Take inj rate w/ 10 BBL clofig water shut down and mix MF-1 & note injectoral in 4000
	12:10	1 1/2	10 BBL			0		Start Pumping Injectoral down tbg hole loaded w/ 10 BBL pumped slow rate to 1 BPM
	12:18	1				225		Injectoral going in formation
	12:43	1				375		w/ 1000 gal in Formation PSI 375 at 1BPM
	13 02	1				425		w/ 2000 gal in Formation PSI 425 at 1BPM
	13 02	1				425		w/ 3000 gal in Formation PSI 425 at 1BPM
	13:25	1	95 BBL out			300		ST Flush w/ clef in water
		1	10 BBL DAP			425		Displace 10 BBL & shut down
	13 34					0		well on vac
	3 45							Decide to shut down & pull Tbg out well has static fluid level 10 BBL down Displacement was cut 10 BBL short to leave injectoral at open hole & not over displaced into Formation
								Knock loose
	14 30							JOB complete
								Thank you! Lenny & Crew

WELL DATA

FIELD Reilly - 56,44 SEC _____ TWP. _____ RING _____ COUNTY Ell STATE K

FORMATION NAME Archie TYPE _____

FORMATION THICKNESS 120 FROM 3303 TO 3422

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 3750

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			<u>7</u>	<u>0</u>	<u>3392</u>	
LINER						
TUBING			<u>2 1/2</u>	<u>0</u>	<u>3200</u>	
OPEN HOLE			<u>3 1/4</u>	<u>0</u>	<u>3432</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

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

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-21</u>	DATE <u>6-29</u>	DATE <u>6-21</u>	DATE <u>6-29</u>
TIME _____	TIME _____	TIME <u>11:55</u>	TIME <u>1:50</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>P. Blahob</u>	<u>40029</u>	<u>HAY</u>
<u>P. Blahob</u>	<u>5145</u>	<u>HAY</u>
<u>W. White</u>	<u>B-9377</u>	<u>HAY</u>
<u>W. White</u>	<u>B-1234</u>	<u>HAY</u>

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 4000 500 7.5 gal 500

DEPARTMENT _____

DESCRIPTION OF JOB Pump 4000 500 7.5 gal 500

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X DJ Stuhl

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.

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. 76 _____ DISPL: BBL.-GAL. _____

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

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL.-GAL. _____

TREATING _____ DISPL. _____ OVERALL _____

FEET _____ REASON _____

HYDRAULIC HORSEPOWER _____

CEMENT LEFT IN PIPE _____

RAMARKS 500 JOB WELLS
Thank you
David Dames
Wayne Meko

CUSTOMER 0611 as 21 hours 13
LEASE 13
WELL NO. D-12 5000 JOB TYPE T 10/10/16 DATE 6/29/17

JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Ph. H. Ref. Co.		D-12		Baume & Mercier SWD		Injectal 'G'		621619	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0530							Called out	
	1000							On location set up equip. 50' rig Roll sodium silicate Blend activator PKR @ 3200'	
	1130	2	14			500		Injection Rate	
	1135	2				0		Start Injectal 'G'	
	1137	2	3					Caught pressure	
		1				0		Slow pump Rate	
	1150	1	25			100		Injection Rate INJECTAL impermeable	
	1220	1	48			150		Injection Rate	
	1345	1	72			175		Injection Rate	
	1302	1	96			175		Injectal @ IN TBG	
	1302	1				150		Start flush	
	1316		8			0		shut down - well on vacuum Rack up equipment Job completed	
								Thank you	
								Lou Story, Wayne Mike	

WELL DATA

FIELD _____ SEC 27 TWP. 11S RING. 17W COUNTY ELLIS 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 EXPERT SET AT 3074
 BOTTOM HOLE TEMP _____ PRESSURE _____
 MISC. DATA BP 8 3352' TOTAL DEPTH _____

#	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	23	4"	0	3352	PLUG
LINER						
TUBING			2 7/8"	0	3074	PACKER
OPEN HOLE						SHOTS/FT.
PERFORATIONS				3143	3148	
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-6</u>	DATE <u>7-6</u>	DATE <u>7-6</u>	DATE <u>7-6</u>
TIME <u>0600</u>	TIME <u>0815</u>	TIME <u>0840</u>	TIME <u>1230</u>

TOOLS AND ACCESSORIES

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

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>W. WILSON</u>	<u>R9377</u> <u>39604</u> <u>COMBO</u>	<u>WAYS, KS</u>
<u>D. ASH</u>	<u>E1609</u> <u>51193</u> <u>BULK</u>	
<u>R. KOHJ</u>	<u>S1361</u> <u>0818</u>	

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.
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____

DEPARTMENT CEMENT
 DESCRIPTION OF JOB SOCKET PERFORATIONS
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN
 CUSTOMER REPRESENTATIVE X Jay Bell
 HALLIBURTON OPERATOR Way-EWT COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIONS	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>50</u>	<u>STANDARD</u>		<u>8</u>	<u>10% SALT, 6% NAHS-9</u>	<u>1.25</u>	<u>15.4</u>
	<u>50</u>	<u>STANDARD</u>		<u>8</u>	<u>10% SALT</u>	<u>1.20</u>	<u>15.8</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET 69 REASON REQUESTED

SUMMARY

VOLUMES

PRESLUSH: BBL. GAL. _____ TYPE _____
 LOAD & BKDN: BBL. GAL. _____ PAD: BBL. GAL. _____
 TREATMENT: BBL. GAL. _____ DISPL. 20.5
 CEMENT SLURRY 88 GAL 11.1 + 10.7 = 21.8
 TOTAL VOLUME: BBL. GAL. _____
 REMARKS SEE CHART 1 JOB LOG
THANK YOU

CUSTOMER: PHILLIPS PETROLEUM CO. WAYS, KS. DATE: 7-6-94

JOB LOG FORM 2013 R-4

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.		
PHILLIPS PETROLIA		D-12		BANNER "B" SWA		SQUEEZE PERFORMANCE		621812		
CHART NO.	TIME	RATE (BPM)	VOLUME (BB) (GAL)	PUMPS		PRESSURE (PSI)		TUBING	CASING	DESCRIPTION OF OPERATION AND MATERIALS
				TY	C	TUBING	CASING			
	0600									CALLED OUT
	0815									ON LOCATION
	0830									DISCROSS JOB
	0841	2.5	17.5	✓		150				HOLE FULL - SPOT 3 SKS SAND @ 3293 PKR
	0938				✓		300			PSE ANNULUS - SHUT IN
	0944	1.1	3	✓		950				INJECTION RATE
	0955	1	0	✓		950				START MIXING CEMENT 50 STD (SALT - HALAD9)
	1013	1.5	21.8	✓		750				FINISH MIXING CEMENT 50 STD (SALT)
										FLUSH PUMP & LINES
	1015	1.2	0	✓		425				START DISPLACEMENT
	1019	1.2	5	✓		600				DISPLACING CEMENT
	1023	1	10	✓		925				"
	1029	1.6	16	✓		975				"
	1037	1.2	18	✓		1000				" SHUT DOWN
										WASH UP TRUCK
	1152	1.2	18.1	✓		1000				PSE-UP
	1102			✓		1000				RELEASE PSE - SQUEEZE HELD
	1103			✓		1000				PSE-UP
	1108			✓		1000				RELEASE PSE - SQUEEZE HELD
	1111	2.5	25	✓			225			REVERSE OUT
										PULL 1 JT - SET PACKER
	1132	1.2		✓		500				PSE-UP - SHUT IN WELL
										(85 SKS CEMENT IN 200E)
										RACK-UP
										DO TICKETS
	1230									JOB COMPLETE
										THANK YOU
										WAYNE WILSON
										DAVE ASH
										RICH KUHN