FORM MUST BE TYPED

SIDE ONE

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

ORIGINAL

API NO. 15- 163-23190-00-00

County ROOKS

NW - SE - SW - Sec. 2 Twp. 9S Rge. 19 E X W

990 Feet from S/N (circle one) Line of Section

1650 Feet from E/W (circle one) Line of Section

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

Lease Name BARRY LKC UNIT Well # #6-40

Field Name Barry

Producing Formation Arbuckle

Elevation: Ground 2001' KB 2006'

Total Depth 3500' PBTD 3430'

Amount of Surface Pipe Set and Cemented at 948' Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt.

Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) AIT I

Chloride content 2,000 ppm Fluid volume 160 bbls

Dewatering method used Vacuum Truck

Location of fluid disposal if hauled offsite:

To class II disposal on lease.

Operator Name ____

Lease Name ____ License No. ____

____ Quarter Sec. ____ Twp. ____ S Rng. ____ E/W

County ____ Docket No. ____

Operator: License # 5229

Name: PHILLIPS PETROLEUM COMPANY

Address ROUTE NO. 3, BOX 20-A

City/State/Zip GREAT BEND, KS 67530

Purchaser: KAW

Operator Contact Person: J. C. Fontenot

Phone (316) 793-8421

Contractor: Name: RED TIGER DRILLING CO.

License: 5302

Wellsite Geologist: Richard Hall

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JAN 25 1992
CONSERVATION DIVISION
Wichita, Kansas

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

X Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

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

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. ____

12-4-91 Spud Date
12-10-91 Date Reached TD
12-28-91 Completion Date

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 J.C. Fontenot

Title Area Superintendent Date 1/16/92

Subscribed and sworn to before me this 16th day of January, 1992.

Notary Public Carla M. Yahne

Date Commission Expires 10-23-92

NOTARY PUBLIC - State of Kansas
CARLA M. YAHNE
My Appt. Exp. 10-23-92

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)

Form ACO-1 (7-91)

SIDE TWO

Operator Name PHILLIPS PETROLEUM CO Lease Name BARRY LKC UNIT Well # #6-40

Sec. 2 Twp. 9S Rge. 19 ☐ East ☒ West County ROOKS

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.) ☐ Yes ☒ No

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run:

DIL/GR, CDL/DSN/GR

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Anhydrite	1390'	616'
Base Anhydrite	1433'	573'
Topeka	2928'	-922'
Heebner	3126'	-1120'
Toronto	3146'	-1140'
Lansing-K.C.	3166'	-1160'
Base L.K.C.	3379'	-1373'
Arbuckle	3413'	-1407'

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	12¼"	8 5/8"	24#	948'	60-40POZ	575	2%GEL,3%CC
PRODUCTION	7 7/8"	5½"	15½#	3499'	COMMON HOWCOLIGHT	200 50	5%CALSEAL 18%SALT
							¼# FLOCELE 6# GILSONITE

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD X Plug Off Zone	3450'-56'		Class A ~~Class A~~	50 sx ~~50 sx~~	0.6% Halad 9
	3440'-46'		Class A Class A	50 sx 25 sx	0.6% Halad 9

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	3450'-3456'	630 gal. acid. Squeezed see above	
2	3440'-3446'	Squeezed see above	
2	3419'-3424'		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8"	3393'		☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj.	Producing Method				
01-02-92	☐ Flowing	☒ Pumping	☐ Gas Lift	☐ Other (Explain)	

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	18	0	498	0	

Disposition of Gas: N/A

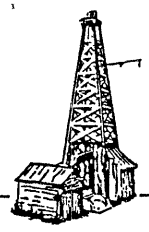
☐ Vented ☐ Sold ☐ Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled ☐ Other (Specify) _____

Production Interval 3419'-3424'

ORIGINAL



WHITEHALL EXPLORATION

CORPORATION

Wellsite Geological Consulting & Complete Well Logging

GEOLOGICAL ANALYSIS AND WELL REPORT

API 15-163-23190

Phillips Petroleum Company

BARRY LKC UNIT No. 6-40

NW-SE-SW
Section 2-Township 9 South-Range 19 West
Rooks County, Kansas

RECEIVED
STATE CORPORATION COMMISSION

JAN 23 1992

CONSERVATION DIVISION
Wichita, Kansas

December 1991

87 DeFrance Way • Golden, Colorado 80401 • (303) 279-6894

ORIGINAL

GENERAL INFORMATION

Elevation:	2,006' K.B. 2,001' G.L. (All measurements are from K.B.)
Contractor:	Red Tiger Drilling Co.
Rig:	Rig No. 5
Surface Casing:	21 joints of 8 5/8" set @ 949'
Total Depth:	R.T.D. 3,500' L.T.D. 3,498'
Drilling Time:	2,800' to 3,500' RTD
Samples Saved:	2,800' to 3,500' RTD
Samples Examined:	2,800' to 3,500' RTD
Wellsite Geologist:	Richard J. Hall Wellsite Geological Consultant Whitehall Exploration Corp.
DST Company:	None
Number of Tests:	None
Mud Company:	Mud Co., Inc.
Mud Type:	Chemical
Electric Logging Company:	Halliburton Logging Services
Type Logs:	DIFL/GR/Sp CDL-CNL/GR-CAL
Samples:	Kept by Phillips Petroleum - Great Bend Office
Total Depth Formation:	Arbuckle - 3rd Break
Well Status:	5 1/2" production casing set through the Arbuckle to total depth

ORIGINAL

DAILY DRILLING CHRONOLOGY

1991 DATE	7:00 A.M. DEPTH	24 HOUR FOOTAGE	ACTIVITY
12/04	0	0	MIRU, drill rathole, spud 11:45 A.M., drilling, run survey at 399', drilling, repair mud pump, drilling, trip for bit at 845', drilling, cleaning cellar.
12/05	850'	850'	Cleaning cellar; drilling, run survey at 950', trip for bit at 950', run 21 jts 8 5/8" surface casing set at 949' with 100 sx, plug down at 2:30 p.m., WOC, drill out cement plug and 45' cement, drilling.
12/06	1,415'	565'	Drilling ahead; run survey and trip for bit at 1,758', drilling.
12/07	2,091'	676'	Drilling ahead; run survey at 2,134', drilling, repair pump, drilling.
12/08	2,543'	452'	Drilling ahead; mud up and displace hole at 2840', drilling.
12/09	3,000'	457'	Drilling; run survey at 3,046', drilling, repair mud pump, drilling.
12/10	3,279'	279'	Drilling; reach 3,500' R.T.D., circulate, short trip 5 stands, lost circulation, mix mud, lost circulation, run 4 stands back in hole, got returns, short trip, circulate, condition hole and mix mud.
12/11	3,500'	221'	Condition hole and mud; run survey, trip out for logs strapping pipe, run E. logs, trip in hole with drill pipe, prepare to run 5 1/2 inch production casing.

ORIGINAL

MUD PROPERTIES

1991 DATE	DEPTH	WEIGHT	VISCOSITY	FILTRATE	pH	YIELD POINT	CHLORIDES
5-Dec	842	10	36	NC	7	NC	1,000
6-Dec	1408	8.8	27	NC	7	NC	1,000
7-Dec	2054	9.2	28	NC	7	NC	41,000
8-Dec	2540	9.4	27	NC	7	NC	32,000
9-Dec	2870	8.6	44	8	11	20	2,500
10-Dec	3280	9.1	46	9.2	10	22	4,000
11-Dec	3500	8.7	44	12.8	9	18	2,000
11-Dec	3500	8.7	47	10.8	9.5	21	2,000
11-Dec	3500	8.7	49	10.8	9.5	22	2,000

ORIGINAL

REFERENCE WELLS

A). Continental Oil Company
Dan Barry "B' No. 4
NE-SW-SW
990' FSL, 990' FWL
Section 2 - T9S-R19W
Rooks County, Kansas
KB 2,018' (estimated)
GL 2,013
TD Formation - Arbuckle 1st Break

B). Continental Oil Company
Dan Barry "B' No. 7
SW-SE-SW
330' FSL, 1650' FWL
Section 2 - T9S-R19W
Rooks County, Kansas
KB 2,006' (estimated)
GL 2,001'
TD Formation - Arbuckle 1st Break

C). Continental Oil Company
Dan Barry "B" No. 6
SW-NE-SW
Section 2 - T9S-R19W
Rooks County, Kansas
KB 2,014' (estimated)
GL 2,009'
TD Formation - Arbuckle 1st Break

DEVIATION SURVEYS (Degrees)

399'	1
950'	1 1/4
1,758'	1
2,134'	3/4
3,046'	3/4
3,500'	1 1/2

ORIGINAL

FORMATIONTOPS

FORMATION	SAMPLE TOPS	ELECTRIC LOG TOPS	ELECTRIC LOG DATUM	Barry 4 REF. WELL "A"	Barry 7 REF. WELL "B"	Barry 6 REF. WELL "C"	DIFFERENCE TO REF. WELL "A"	DIFFERENCE TO REF. WELL "B"	DIFFERENCE TO REF. WELL "C"
Anhydrite	1392	1390	616	NA	NA	NA	NA	NA	NA
B/Anhydrite	1431	1433	573	NA	NA	NA	NA	NA	NA
Topeka	2932	2928	-922	-917	-919	-921	-5	-3	-1
Heebner	3131	3126	-1120	-1115	-1122	-1120	-5	2	---
Toronto	3153	3146	-1140	-1141	-1144	-1140	1	4	---
Lansing	3172	3166	-1160	-1157	-1163	-1159	-3	3	-1
LansingJ	3346	3342	-1336	-1331	-1334	-1330	-5	-2	-6
StarkShale	3354	3354	-1348	-1343	-1348	-1348	-5	---	---
B/KansasCity	3380	3379	-1373	-1368	-1374	-1373	-5	1	---
Arbuckle	3416	3413	-1407	-1411	-1408	-1413	4	1	6
Arbuckle1st	3422	3420	-1414	NA	NA	NA	NA	NA	NA
Arbuckle2nd	NC	3440	-1434	NA	NA	NA	NA	NA	NA
Arbuckle3rd	3456	3454	-1448	NA	NA	NA	NA	NA	NA

ORIGINAL

ZONES OF INTEREST

Formation	Log Depth	Lithology, Description, Comments
Topeka	3077'-3080'	Limestone, light gray, fine-very fine crystalline, chalky in part, slightly shaley, poor intercrystalline porosity, fair odor, scattered minor black stain in part, slight show free oil, slight to good fluorescence in part, slow slight streaming pale yellow normal cut, good dried residual cut. Electric logs show this zone to have a maximum of 15 percent density porosity and 10 ohms resistivity which calculates a 43 percent water saturation.
Topeka	3096'-3100'	Limestone, light gray, fine crystalline, soft to firm, friable in part, very chalky, fair intercrystalline porosity, poor chalky porosity, very good odor, excellent mostly saturated dark brown stain, good show free oil, extremely dull-pale yellow fluorescence, very good intermediate to fast bright yellow streaming normal cut, very good dried cut. Electric logs show this interval to have maximum crossplot porosity of 16 percent with a maximum 4 ohms resistivity which calculates a 65 percent water saturation.
Toronto	3146'-3158'	Limestone, light gray to greenish/gray, very fine crystalline, hard-dense, no to moderately mottled in part, rare fossil fragments, no visual intercrystalline porosity, fair vuggy porosity, no odor, spotty dark brown stain, slight show free oil, no to fair green/yellow fluorescence in part, very good fast normal cut, good pale yellow dried residual cut. Electric logs show this zone to have a shaley gamma ray and is tight with four-eight percent crossplot porosity.
Lansing "D"	3226'-3229'	Limestone, off white-buff, fine crystalline, firm, oolitic in part, moderately chalky, fair intercrystalline porosity, rare pieces with slight spotty stain, no show free oil, good white/yellow fluorescence, fair to good bright yellow normal cut, intermediate

ORIGINAL

		pale yellow dried residual cut. Electric logs show this interval to have a maximum density porosity of eight percent, 18 ohms resistivity and a 61 percent water saturation. Neutron/density crossover occurs from 3227'-3229'.
Lansing "F"	3245'-3249'	Limestone, off white, white, fine crystalline, chalk, soft to firm, abundant fossils and fossil fragments (crinoid,fusulinid), poor intercrystalline porosity to no visual porosity, no odor, spotty uneven light brown stain in part, fair show free oil, slight white/yellow fluorescence, fair to intermediate pale yellow normal cut, intermediate pale yellow dried residual cut. Electric logs show density porosity ranges from 6 to 11 percent with a maximum of 8 ohms resistivity.
Lansing "F"	3267'-3269'	Limestone, light gray, fine to predominately very fine crystalline, firm to hard, slightly to moderately chalky in part, scattered vuggy porosity, very poor intercrystalline porosity, no odor, good medium yellow fluorescence, slight to fair show free oil, fair to good pale yellow normal cut, fair to medium pale yellow dried cut. Electric logs show this interval to have a maximum 7 percent density porosity and 40 ohms resistivity with a water saturation which calculates at 46 percent.
Kansas City "J"	3342'-3348'	Limestone, light gray-off white, fine to very fine crystalline, firm to hard, dense in part, slightly chalky in part, predominately oomoldic (60-100% of cutting), oolitic (0-40% of cutting, 0.5 mm diameter), excellent vuggy oolmoldic porosity, fair-good intercrystalline porosity in part, predominately saturated dark brown oil staining to near saturated, oil filled oolicasts, excellent show of free black oil, fair gold fluorescence, excellent instant flash bright yellow normal cut, very good bright yellow dried residual cut. Electric logs show this zone to have a maximum neutron and density porosity of 25 percent and a maximum 90 ohms resistivity which calculates a 9 percent water saturation. This zone has the best sample oil shows and the lowest water

ORIGINAL

saturation in the entire Lansing/Kansas City Formation.

Kansas City "K"	3365'-3368'	Limestone, off white to buff, fine to predominately very fine crystalline, hard to dense, mottled, pelletal in part, slightly to moderately chalky in part, fair intercrystalline porosity in part to no visual porosity, trace of odor, scattered uneven light brown stain, fair show free oil, good bright yellow fluorescence, excellent bright yellow slow streaming normal cut, very good bright yellow dried cut. Electric logs show this interval to be very tight with crossplot porosity averaging 3 to 4 percent.

*NOTE: All Lansing/Kansas City Formation zones water saturations were calculated using a Rw of 0.043.

Arbuckle 1st	3420'-3430'	Dolomite, light gray, buff-tan, fine to very fine crystalline in part, occasional medium crystalline, firm to dense, occasional friable, scattered chert (orange/yellow, light gray,opaque, tan), predominately chalk free to very slightly chalky in part, fine to coarse rhombic and sucrosic texture, poor to good intercrystalline porosity, scattered vuggy porosity, excellent odor, partial dark brown stain to saturated pieces, excellent show free black oil, fair-good dull yellow fluorescence, excellent bright yellow flash cut, very good bright yellow dried residual cut. Electric logs show this interval to have a minimum of 9 percent density porosity with neutron porosities ranging from 20 to 35 percent. The two intervals with the greatest porosity are from 3426' (-1420) to 3430' (35 percent porosity, 28 ohms resistivity, water saturation of 16 percent) and 3434' (-1428) to 3437' (34 percent porosity, 25 ohms resistivity, water saturation of 18 percent).
Arbuckle 2nd	3440'-3448'	Dolomite, light gray, occasional buff to tan, fine to micro crystalline, dense, fine to coarse rhombic and sucrosic texture, poor to good intercrystalline porosity in part, good odor, scattered dark brown stain, very fine to micro crystalline where no stain, abundant saturated pieces, excellent show free oil, fair to predominately good pale to dull yellow fluorescence, excellent

ORIGINAL

		bright yellow flash and normal cut, very good yellow dried residual cut. Electric logs show this zone to have 6 to 17 percent density porosity (13-20 percent neutron porosity). The best developed interval is from 3446' (-1440) to 3448' where density porosity reaches 17 percent, resistivity 18 ohms, and water saturation is calculated at 41 percent.
Arbuckle 3rd	3454'-3463'	Dolomite, tan to light bright brown, fine-very fine crystalline, hard to dense, very fine to medium rhombic and sucrosic texture, scattered pellets, fair to good intercrystalline porosity, very good vuggy porosity, excellent odor, excellent show free oil, uneven dark brown stain to saturated, no to spotty bright yellow fluorescence in part, excellent instant flash bright yellow and fast streaming cut, very good bright yellow dried residual cut. Electric logs show this zone to have 7 to 23 percent density porosity. The best developed interval occurs from 3460' (-1454) to 3462' with 23 percent density porosity, 18 ohms resistivity, and a 29 percent water saturation.

*NOTE: Arbuckle water saturations were calculated using a Rw of 0.089.

SUMMARY

ORIGINAL

The Barry LKC Unit No. 6-40 test well was drilled as a in-fill developoment location between the No. 2, 4, 6, 7 and 9 producing wells. Primary objectives included multiple Lansing/Kansas City Formation zones and the Arbuckle 1st, 2nd and 3rd breaks.

The Barry LKC Unit No. 6-40 was spudded December 14, 1991 and RTD was reached December 11, 1991. Production casing (5 1/2 inch) was set December 12, 1991. Reference wells used as control for correlation for this report are the Continental Oil Company's : A) Barry "B" No. 4, B) Barry "B" No. 7 and C) Barry "B" No. 6.

Structurally, the Barry LKC Unit No. 6-40 ran 3 to 5 feet low structurally compared to the Barry "B" No. 4 from the Lansing through the Base/Kansas City, and four feet high at the Arbuckle. Because the three reference wells were completed open hole in the Arbuckle, no structural comparison is available in the Arbuckle 1st, 2nd and 3rd breaks. Compared to the Barry "B" No. 7 and No. 6, the test well ran one foot high and 6 foot high respectively at the top of the Arbuckle Formation, and 3 foot high and 1 foot low respectively at the Lansing datum.

No drill stem tests were performed in the Barry LKC Unit No. 6-40. However, numerous significant sample shows were observed throughout the well. Free oil shows were encountered in two (2) zones of the lower Topeka Formation The Toronto Formation, the Lansing "F" zone (two intervals) Kansas City "J" zone, Kansas City "K" zone and throughout the Arbuckle 1st, 2nd and 3rd breaks. Oil staining, fluorescence and cut, with no show of free oil, was observed in the Lansing "D" zone. Electric logs indicate the Lansing "C" zone calculates a 23 percent water saturation, however, no sample shows were observed over this zone.

Therefore, based on the favorable structural position in relation to the three reference wells and the excellent sample shows and log calculations in the Kansas City "J" zone and Arbuckle 1st, 2nd, and 3rd breaks, 5 1/2 inch production casing was set at total depth to further test the three Arbuckle breaks.

Respectively submitted,

Richard J. Hall
WHITEHALL EXPLORATION CORPORATION

1 File
od.Engr.Supv.
Office

CASING AND CEMENTING REPORT

ORIGINAL

done DIMS 12-13 need to edit

WELL NAME Barry LKC II 6-40 LOCATION NW SW SW Sec. 8-T9S-R19W DATE 12-5-91

FIELD Barry COUNTY Rooks STATE Kan.

TOTAL DEPTH 955' PBTD 902' BIT SIZE 12¼

MUD WEIGHT 10 VISCOSITY 36 WATER LOSS —

SIZE	WEIGHT/FT.	GRADE	THREAD	CASING STRING BOTTOM TO TOP NO. JOINTS	LENGTH OF SECTION
8 5/8	Tex. Pattern Guide shoe				1.10
8 5/8	24#	K-55	8rd ST&C	1	45.15
8 5/8	24#	K-55	8rd ST&C	21	894.35
8 5/8	Landing Jt.		8rd	1	11.70

TOTAL LENGTH CASING 952.30
CUT OFF - 11.70
TOTAL CASING & EQUIP LEFT IN HOLE 940.60
DISTANCE RKB ABOVE CUT OFF + 7.90
CASING SET AT 948.50

_____' MARKER JT. @_____' _____" FRAC RING @ _____'
_____' MARKER JT. @_____' _____" FRAC RING @ _____'
_____' MARKER JT. @_____' _____" FRAC RING @ _____'

RECEIVED
STATE CORPORATION COMMISSION
JAN 23 1992
CONSERVATION DIVISION
Wichita, Kansas

MAKE, TYPE, AND LOCATION OF SCRATCHERS

MAKE, TYPE, AND LOCATION OF CENTRALIZERS Baker Type "HSH"
25' 45' 84' 128' 173' 302' 431' 564' 697' 824' above csg. shoe.

CEMENT

Note 12-13 need to edit

CEMENTING COMPANY Howco. KIND & TYPE OF CEMENT (1) 40/60 Pozmix

ORIGINAL (2)

KIND & AMOUNT OF ADDITIVE (1) 2% Gel, 3% CaCl & 1/4# Flocele per/sk.

(2)

WT. OF SLURRY* (1) 14.3 YIELD (1) 1.27 PREFLUSH —

(2) (2)

AMOUNT OF CEMENT 575 sks. CALIPERED HOLE VOLUME TO T.O.C. —

TEMPERATURE SURVEY BY — ACTUAL T.O.C. Surface

CIRC. OUT 100 sks. (surface only)

RECIPROCATE PIPE — FT. @ — SPM FOR — HRS.

DISPLACEMENT

RATE 5-6 BBLS/MIN VOLUME TO DISPLACE PLUG 57.7 BBLS.

BUMPED PLUG W/ 500 PSI HELD OK? Yes

PHILLIPS PETROLEUM COMPANY PERSONNEL ON JOB D. Stahl

* Check weight of cement slurry every 20 bbls. with pressurized fluid balance.

Plug down @ 2:30 P.M. 12-5-91

Pressure test csg. @ 8:30 PM 12-5-91 to 600# "Held For 30 min".

ORIGINAL

ORIGINAL

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

REC'D DEC 9 1991

ORIGINAL

INVOICE NO.	DATE
208527	12/05/199

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
ARRY LKC UNIT 6-40 40RD26	ROOKS	KS	SAME

SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
AYS	RED TIGER DRLG.	CEMENT SURFACE CASING	12/05/199

ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO
86000	DAVID STAHL	B000053384		COMPANY TRUCK	2680

PHILLIPS PETROLEUM CO - B6817
ACCOUNTING DEPARTMENT
P. O. BOX 358
BORGER, TX 79008-0358

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
RICING AREA - MID CONTINENT					
000-117	MILEAGE	14	MI	2.60	36.40
001-016	CEMENTING CASING	1	UNT		
		948	FT	680.00	680.00
030-018	CEMENTING PLUG 5W, PLASTIC TOP	1	UNT		
		8 5/8	IN	130.00	130.00
504-308	STANDARD CEMENT	1	EA		
506-105	POZMIX A	300	SK	5.45	1,635.00
506-121	HALLIBURTON-GEL 2%	200	SK	3.40	680.00
509-406	ANHYDROUS CALCIUM CHLORIDE	9	SK	.00	N/C
507-210	FLOCELE	13	SK	26.25	341.25
504-308	STANDARD CEMENT	125	LB	1.30	162.50
506-105	POZMIX A	45	SK	5.45	245.25
506-121	HALLIBURTON-GEL 2%	30	SK	3.40	102.00
509-406	ANHYDROUS CALCIUM CHLORIDE	1	SK	.00	N/C
507-210	FLOCELE	2	SK	26.25	52.50
500-207	BULK SERVICE CHARGE	19	LB	1.30	24.70
500-306	MILEAGE CMTG MAT DEL OR RETURN	613	CFT	1.15	704.95
		362.558	TMI	.80	290.05
	INVOICE SUBTOTAL				5,084.60
	DISCOUNT-(BID)				813.52-
	INVOICE BID AMOUNT				4,271.08
	*-KANSAS STATE SALES TAX				155.95
	*-HAYS CITY SALES TAX				18.35
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT ==========>				$4,445.38

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JAN 23 1992
CONSERVATION DIVISION
Wichita, Kansas

D. L. Stahl

'FIX JOB TKT

TERMS INVOICES PAYABLE NET BY THE 10TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF ITS CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE WAS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY ATTORNEYS TO ENFORCE COLLECTION OF THIS ACCOUNT, CUSTOMER AGREES TO PAY REASONABLE ATTORNEY'S FEES.

RM 1900-R4

Well File
Prod.Engr.Supv.
eld Office

CASING AND CEMENTING REPORT

ORIGINAL

WELL NAME Barry CKC #6-40 LOCATION NW SE SW Sec 2-T9S-R19W DATE 12-11-91

FIELD Barry COUNTY Rooks STATE Kan.

TOTAL DEPTH 3500 PBTD 3461 BIT SIZE 7 7/8

MUD WEIGHT 8.7 VISCOSITY 45 WATER LOSS 10.4

SIZE	WEIGHT/FT.	GRADE	THREAD	CASING STRING BOTTOM TO TOP NO. JOINTS	LENGTH OF SECTION
5½	Guide shoe		8rd		.94
5½	15.5#	J-55	8rd LT&C	Sd. Blast 1	34.37
5½	Mod "G" Diff Fill collar		8rd		1.81
5½	15.5#	J-55	8rd LT&C	Sd. Blast 26	1090.26
5½	15.5#	J-55	8rd LT&C	Lqueved 55	2360.89
5½	—	—	8rd	Landing Jt.	10.98

TOTAL LENGTH CASING 3506.25
CUT OFF - 10.98
TOTAL CASING & EQUIP LEFT IN HOLE = 3495.27
DISTANCE RKB ABOVE CUT OFF + 4.—
CASING SET AT 3499.27

_____' MARKER JT. @ _____' _____" FRAC RING @ _____'
_____' MARKER JT. @ _____' _____" FRAC RING @ _____'
_____' MARKER JT. @ _____' _____" FRAC RING @ _____'

MAKE, TYPE, AND LOCATION OF SCRATCHERS

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MAKE, TYPE, AND LOCATION OF CENTRALIZERS Baker 5½" Type "HSH" @ 5, 35, 78, 119, 163, 207, 294, 380, 462, 541, 628, 703, 786, 869, 955, 1041' above csg. shoe.

dcm DIMS

CEMENT

CEMENTING COMPANY HOWCO KIND & TYPE OF CEMENT (1) 50 sks Howco Light Cmt. 200sks (2) Class "A" common.

ORIGINAL

KIND & AMOUNT OF ADDITIVE (1) 1/4# per/sk Flo-cele. 1/5# per/sk Flocele

(2) 5% calseal, 18% salt, 3/4 of 1% Halad-322, 6# Gilsonite per/sk.

WT. OF SLURRY* (1) 12.4 YIELD (1) 1.97 PREFLUSH —

(2) 15.5 (2) 1.36

AMOUNT OF CEMENT 250 CALIPERED HOLE VOLUME TO T.O.C. —

TEMPERATURE SURVEY BY — ACTUAL T.O.C. —

CIRC. OUT — (surface only)

RECIPROCATE PIPE — FT. @ — SPM — FOR — HRS.

DISPLACEMENT

3468.13 X .0238

RATE 5-6 BBLS/MIN VOLUME TO DISPLACE PLUG 825 BBLS.

BUMPED PLUG W/ 1400 PSI HELD OK? Yes

Plug down @ 3:00 AM - 12-12-91

PHILLIPS PETROLEUM COMPANY PERSONNEL ON JOB D.J. Stahl & Jim Arroyo

* Check weight of cement slurry every 20 bbls. with pressurized fluid balance.

Plug rathole w/10 sks Howco lite Cmt.

Rel. rig @ 8:30 AM - 12-12-91

HALLIBURTON SERVICES

JOB LOG

ORM 2013 R-2

WELL NO. G-40 LEASE BARRY UNIT TICKET NO. 208507

CUSTOMER PHILLIPS PET PAGE NO. 1

JOB TYPE LONG STRING DATE 12-11-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2115							ON LOC W/ EQUIP SET UP EQUIP & PLAN JOB RIG PREPARING TO RUN 5½" 15½# CSG
	0030							CSG SET @ 3498' HOOK UP SWEDGE TO RIG PUMP — RIG PUMP BREAKS CIRC & CIRC
	0130							HOOK UP R.C & MANIFOLD W/ ROTATING HEAD
	0230							HOOK UP TO H.T. 400
			17	CMT			300	MIX & PUMP 50 SKS HLC W/ ¼# FLOCELE (PUMP FIRST 10 SKS INTO RATHOLE)
			48	CMT			300	MIX & PUMP 200 SKS EA-2 W/ 5% CALSEAL 18% SALT ¾% HALAD-322, 6# GILSONITE ¼# FLOCELE
	0243						150	FINISH MIX CMT
								WASH PUMP & LINE
								RELEASE PLUG
	0245	6	82½	SW			150	START DISP
	0259						800	DISP IN PLUG @ 3468'
	0302						1400	RELEASE PRESSURE TO TRK FLOAT HELD
								JOB COMPLETE

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MEL CHILDERS B7383
BUD MAGNINER E2361
DAVE ASN E1609

ORIGINAL ~~ORIGINAL~~

HALLIBURTON SERVICES

A Halliburton Company

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE

Sent 12/26/91 H

RECD ORIGINAL DEC 1

INVOICE NO.	DATE
208507	12/12/19

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
ARRY UNIT 6-40	ROOKS	KS	SAME

SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
AYS	RED TIGER	CEMENT PRODUCTION CASING	12/12/19

ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE N
86000	DAVID J. STAHL	B000053384	40-RD26	COMPANY TRUCK	2710

PHILLIPS PETROLEUM CO - B6817
510 N.W. 3RD
PLAINVILLE, KS 67663

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE	14	MI	2.60	36.40
001-016	CEMENTING CASING	1	UNT		
		3498	FT	1,185.00	1,185.00
030-016	CEMENTING PLUG 5W ALUM TOP	1	UNT		
		5.5	IN	50.00	50.00
019-241	CASING SWIVEL W/O WALL CLEANER	1	EA		
504-308	STANDARD CEMENT	1	JOB	155.00	155.00
508-127	CAL SEAL	200	SK	5.45	1,090.00
509-968	SALT	9	SK	19.70	177.30
507-210	FLOCELE	1550	LB	.10	155.00
508-291	GILSONITE BULK	63	LB	1.30	81.90
507-775	HALAD-322	1200	LB	.35	420.00
504-316	HALLIBURTON LIGHT W/STANDARD	141	LB	6.15	867.15
500-207	BULK SERVICE CHARGE	50	SK	5.25	262.50
500-306	MILEAGE CMTG MAT DEL OR RETURN	336	CFT	1.15	386.40
		190.848	TMI	.80	152.68
	INVOICE SUBTOTAL				5,019.33
	DISCOUNT-(BID)				803.06-
	INVOICE BID AMOUNT				4,216.27
	*-KANSAS STATE SALES TAX				124.51
	*-HAYS CITY SALES TAX				14.63
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT ==========>				$4,355.41

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D. J. Stahl

J C Bowlin A27

FIX JOB TKT

M 1900-R4