

ORIGINAL

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

Operator: License # 31160  
 Name: Phillips Exploration Company, L.C.  
 Address: 100 S. Main, Suite 510  
 City/State/Zip: Wichita, Ks 67202  
 Purchaser: Texaco Trading and Transportation  
 Operator Contact Person: James B. Phillips  
 Phone: (316) 265-2857  
 Contractor: Name: Sterling Drilling Co., Inc.  
 License: 5142  
 Wellsite Geologist: Casey Galloway  
 Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SIOW  Int. Abd.  
 Gas  ENHR  SIGW  SIGW  
 Dry  Other (Core, WSW, etc.)  
 If Workover/Re-Entry: old well info  
 Operator: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Comp. Date \_\_\_\_\_ Old Total \_\_\_\_\_  
 Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
4/22/93 4/29/93 5/20/93  
 Spud Date Date Reached TD Completion Date

API NO. 15- 155-21,254 - 0000  
 County Reno  
SW SW NE Sec. 20 Twp. 25 S Rge. 09  W  
2310 Feet from S (circle one) Line of Section  
2310 Feet from W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  SE,  NW or  SW (circle one)  
 Lease Name Joy Royse Well # 1-20"A"  
 Field Name Langdon  
 Producing Formation Mississippi Chert  
 Elevation: Ground 1703 KB 1712  
 Total Depth 4050 PBTD 4030  
 Amount of Surface Pipe Set and Cemented at 224 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 cnt.  
 Drilling Fluid Management Plan 4-15-94  
 (Data must be collected from the Reserve Pit)  
 Chloride content 10000 ppm Fluid volume 2000 bbls  
 Dewatering method used evaporation & hauled  
 Location of fluid disposal if hauled offsite:  
 Operator Name C & C Tank Service, Inc  
 Lease Name Roach SWD License No. 30708  
 SW Quarter Sec. 14 Twp. 23 S Rng. 09  W  
 County Reno Docket No. 22208

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 KANSAS CORPORATION COMMISSION  
 1-27-94  
 JAN 27 1994  
 CONSERVATION DIVISION  
 WICHITA, KS

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: James B. Phillips  
 Title: President Date: 6/12/93  
 Subscribed and sworn to before me this 27<sup>th</sup> day of January, 19 94.  
 Notary Public: Ada C. May  
 Date Commission Expires: \_\_\_\_\_

K.C.C. OFFICE USE ONLY		
F	Letter of Confidentiality Attached	
C	Wireline Log Received	
C	Geologist Report Received	
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)

ADA C. MAY  
 NOTARY PUBLIC  
 STATE OF KANSAS  
 My Appt. Exp. 10-28-95

P1

Operator Name Phillips Exploration Company, L.C. Lease Name Joy Royse Well # 1-20"A"

Sec. 20 Twp. 25 S. Rge. 09  
 East  
 West

County Rego

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  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy.)

List All E.Logs Run:

DIL, SDL/DSN, FF-MSG, Coral

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Heebner	3203	-1491
Lansing	3414	-1702
B/ KC	3759	-2047
Cherokee Sh	3963	-2151
Miss. Chert	3887	-2175
Miss. Lime	3960	-2248
Kinderhook Sh	3968	-2256
TD	4050	-2338

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	20	224	60/40 Poz	175	3%CC, 2%gel
Production	7 7/8	5 1/2	15.5	4046.58	Howco EA-2	150	10% salt, 1%gel, 5#/sk Gilsonite, 5% Cal Seal, .6% Halad 322

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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
2	3897 to 3903	250 gal 10% acetic	same
		500 gal 7 1/2% HCL, 1500 gal	3 1/2% HF
		1 6 1/2% HCL	same

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 7/8	4014	none	

Date of First, Resumed Production, SWD or Inj. 6/12/93 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50	20	100	MOD	34

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

3897-3903

TELEPHONE:  
AREA CODE 913 483-2627

**ALLIED CEMENTING COMPANY, INC.**  
P. O. BOX 31  
RUSSELL, KANSAS 67665

**ORIGINAL**

TO: Phillips Exploration Co.  
100 S. Main, Suite 510  
Wichita, KS 67202

INVOICE NO. 63820  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME Joy Royse #1-20A  
DATE 4-22-93

SERVICE AND MATERIALS AS FOLLOWS:

Common 105 sks @\$5.75	\$603.75	
Pozmix 70 sks @\$3.00	210.00	
Chloride 6 sks @\$25.00	<u>150.00</u>	\$ 963.75
Handling 175 sks @\$1.00	175.00	
Mileage (28) @\$.04¢ per sk per mi	196.00	
Surface	430.00	
Mi @\$2.25 pmp trk chg	63.00	
1 plug	<u>42.00</u>	<u>906.00</u>
	Total	\$1,869.75

Cement circulated

*pd 5/7/93*  
Thank you!

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WICHITA, KS

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.



HALLIBURTON SERVICES

ORIGINAL

INVOICE NO.	DA
340802	04/29

A Halliburton Company

INVOICE

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
JOY ROYCE 1-20A		RENO		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
HAYS		STERLING #2		CEMENT PRODUCTION CASING	
ACCT. NO.		CUSTOMER AGENT		VENDOR NO.	
CASEY COATS				CUSTOMER P.O. NUMBER	
				SHIPPED VIA	
				COMPANY TRUCK	
				TICKET DA	
				04/29/	

PHILLIPS EXPLORATION COMPANY  
100 S. MAIN, SUITE 510  
WICHITA, KS 67202

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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 - EASTERN AREA 1					
000-117	MILEAGE	30	MI	2.75	82.50
		1	UNT		
001-016	CEMENTING CASING	4050	FT	1,410.00	1,410.00
		1	EA		
030-016	CEMENTING PLUG SW, PLASTIC TOP	5.5	LN	65.00	65.00
		1	EA		
018-315	MUD FLUSH	500	GAL	.65	325.00
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	121.00	121.00
825.205					
24A	INSERT FLOAT VALVE - 5 1/2" 8RD	1	EA	110.00	110.00
815.1925					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	46.50	46.50
815.19315					
40	CENTRALIZER 5-1/2" X 7 7/8"	4	EA	44.00	176.00
807.93022					
504-308	CEMENT - STANDARD	175	SK	6.76	1,183.00
509-968	SALT	650	LB	.13	84.50
507-775	HALAD-322	85	LB	6.90	586.50
508-127	CAL SEAL 60	7	SK	20.70	144.90
508-291	GILSONITE BULK	750	LB	.40	300.00
507-277	HALLIBURTON-GEL BENTONITE	1	SK	15.50	15.50
500-207	BULK SERVICE CHARGE	211	CFT	1.25	263.75
500-306	MILEAGE CMTG MAT DEL OR RETURN	281.025	TMI	.85	238.87
INVOICE SUBTOTAL					5,153.02
DISCOUNT-(BID)					1,123.28
INVOICE BID AMOUNT					4,029.74
*-KANSAS STATE SALES TAX					124.76
*-HAYS CITY SALES TAX					25.46
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$4,179.96

*PAID*  
*5/10/93*

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS 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 AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

ORIGINAL

DST REPORT (CONTINUED)

TEST ONE: 3862 to 3897

API#15-155-21254

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
85.0	1.0	0.0	0.0	99.0	DRILLING MUD W/TRACE OIL
240.0	10.0	35.0	0.0	55.0	GASSY OIL CUT MUD
240.0	100.0	0.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	GRAVITY 34 @ 60 DEGREES F
0.0	0.0	0.0	0.0	0.0	CHLORIDES 49000 PPM

RATE INFORMATION

OIL VOLUME:	1.4194 STB			
GAS VOLUME:	4.4675 SCF			
MUD VOLUME:	2.4306 STB			
WATER VOLUME:	0.0000 STB			
TOTAL FLUID :	3.8501 STB			
		TOTAL FLOW TIME:	95.0000 min.	
		AVERAGE OIL RATE:	58.3587 STB/D	
		AVERAGE WATER RATE:	0.0000 STB/D	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1835.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	165.00	240.00
INITIAL SHUT-IN	60.00		905.00
FINAL FLOW	60.00	175.00	210.00
FINAL SHUT-IN	90.00		905.00

FINAL HYDROSTATIC PRESSURE: 1825.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1836.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	182.00	272.00
INITIAL SHUT-IN	60.00		925.00
FINAL FLOW	65.00	182.00	226.00
FINAL SHUT-IN	96.00		909.00

FINAL HYDROSTATIC PRESSURE: 1742.00

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ORIGINAL

GAS FLOW REPORT

TEST ONE

GENERAL INFORMATION

DATE : 4/26/93  
CUSTOMER : PHILLIPS EXPLORATION CO.  
WELL : #1-20A TEST: 1  
ELEVATION: 1712 KB  
SECTION : 20  
RANGE : 9W COUNTY: RENO  
GAUGE SN#: 10979 RANGE : 4100  
TICKET : 18684  
LEASE : JOY ROYSE  
GEOLOGIST: ?  
FORMATION: MISSISSIPPI  
TOWNSHIP : 25S  
STATE : KS  
CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
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SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
30 MIN	MERLA	1.500	2" OF WTR	98500 SCF/D
40 MIN	MERLA	1.000	11" OF WTR	85900 SCF/D
50 MIN	MERLA	1.000	8.5" OF WTR	75000 SCF/D
60 MIN	MERLA	1.000	9" OF WTR	77500 SCF/D
70 MIN	MERLA	1.000	12" OF WTR	89800 SCF/D
80 MIN	MERLA	1.000	11.5" OF WTR	87500 SCF/D
90 MIN	MERLA	1.000	12" OF WTR	89800 SCF/D

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ORIGINAL

DST REPORT (CONTINUED)

TEST TWO: 3898 to 3910

API#15-155-21254

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
40.0	100.0	0.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	26 GRAVITY @ 60 DEGREES
215.0	10.0	25.0	0.0	65.0	GASSY OIL CUT MUD
0.0	0.0	0.0	0.0	0.0	3683 FT GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.3024	STB	TOTAL FLOW TIME:	95.0000	min.
GAS VOLUME:	1.4841	SCF	AVERAGE OIL RATE:	15.0009	STB/D
MUD VOLUME:	0.6872	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.9896	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1790.00			
Description	Duration	p1	p End
INITIAL FLOW	30.00	65.00	105.00
INITIAL SHUT-IN	60.00		905.00
FINAL FLOW	60.00	95.00	95.00
FINAL SHUT-IN	90.00		915.00
FINAL HYDROSTATIC PRESSURE: 1780.00			

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1808.00			
Description	Duration	p1	p End
INITIAL FLOW	35.00	75.00	125.00
INITIAL SHUT-IN	60.00		936.00
FINAL FLOW	60.00	111.00	100.00
FINAL SHUT-IN	93.00		933.00
FINAL HYDROSTATIC PRESSURE: 1783.00			

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WICHITA, KS

# ORIGINAL

## GAS FLOW REPORT

TEST TWO

### GENERAL INFORMATION

DATE : 4/28/93  
CUSTOMER : PHILLIPS EXPLORATION CO.  
WELL : #1-20A TEST: 2  
ELEVATION: 1712 KB  
SECTION : 20  
RANGE : 9W COUNTY: RENO  
GAUGE SN#: 10979 RANGE : 4100

TICKET : 18685  
LEASE : JOY ROYSE  
GEOLOGIST: ?  
FORMATION: MISSISSIPPI  
TOWNSHIP : 25S  
STATE : KS  
CLOCK : 12

### PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
25 MIN	MERLA	1.000	18 PSIG	687000 SCF/D
30 MIN	MERLA	1.000	10 PSIG	472000 SCF/D

### SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
30 MIN	MERLA	0.750	7 PSIG	211000 SCF/D
40 MIN	MERLA	0.750	9.5 PSIG	251000 SCF/D
50 MIN	MERLA	0.750	10.5 PSIG	266500 SCF/D
60 MIN	MERLA	0.750	6.5 PSIG	202000 SCF/D
70 MIN	MERLA	0.750	5.5 PSIG	185000 SCF/D
80 MIN	MERLA	0.750	5 PSIG	175000 SCF/D
90 MIN	MERLA	0.750	4.5 PSIG	166000 SCF/D

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