

ORIGINAL

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

API NO. 15- 033-21004 0000

County Comanche County, Kansas
NW - SW - NW - Sec. 35 Twp. 32 Rge. 18 ^E
1450 Feet from (N) (circle one) Line of Section
330 Feet from (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)
Lease Name Kimble Well # 35-1

Field Name Nescatunga SW

Producing Formation Pawnee

Elevation: Ground 2005' KB 2018'

Total Depth 5627' PBDT 5600'

Amount of Surface Pipe Set and Cemented at 663.65 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 _____ ^{SW} _____ sx cmt.

Drilling Fluid Management Plan Att. 1, 6-3-99 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 160 bbls

Dewatering method used Hauled to SWDW

Location of fluid disposal if hauled offsite: _____

Operator Name KBW Oil&Gas Co.

Lease Name Harmon SWD #1 License No. 5993

NW Quarter Sec. 11 Twp. 33 S Rng. 20 (E)

County Comanche Docket No. D-22304

Operator: License # 3869

Name: Imperial Oil Properties, Inc.

Address 212 North Market - Suite 513

City/State/Zip Wichita, Kansas 67202-6977

Purchaser: Kansas Gas Supply

Operator Contact Person: Robert Williams

Phone (316) 265-6977

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Jon T. Williams

Designate Type of Completion
 New Well Re-Entry Workover

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

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

03-30-99 04-13-99 04-14-99
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

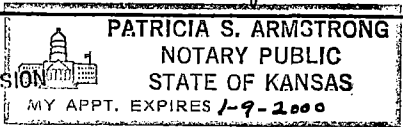
Signature Jon T. Williams

Title Geologist-Agent Date 5/19/99

Subscribed and sworn to before me this 19 day of May, 1999.

Notary Public Patricia S. Armstrong

Date Commission Expires _____



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Form ACO-1 (7-91)

RECEIVED STATE CORPORATION COMMISSION

MAY 28 1999

CONSERVATION DIVISION
Wichita, Kansas

05-20-1992

X

Operator Name Imperial Oil Properties, Inc. Lease Name Kimble Well # 35-1

Sec. 35 Twp. 32 Rge. 18 East West County Comanche County, Kansas

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:
 Dual Compensated Porosity
 Dual Induction
 Microresistivity

Name	Formation (Top), Depth and Datum	
	Top	Datum
Heebner	4222	-2205
Brown Lime	4402	-2384
Lansing	4422	-2404
Base K.C.	4842	-2824
Marmaton	4904	-2886
Mississippi	5094	-3076
viola	5607	-3589

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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"		43'			
Surface	12-1/4"	8-5/8"	23#	663.65'	MidconII Premium	140 100	3%cc 2%cc 1#floseal
Production	7-7/8"	5-1/2"	15.5#	5627'	Premium	215	10%caseal 10%sal

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth
2	5098 to 5112 (Miss.)		1000 gal 15% MCA	
			3000 gal 15% Gelled	
2	5005 to 5017 (Pawnee)		1500 gal 29% MCA	
	Lock Set Packer at 5056'			

TUBING RECORD				Liner Run	
Size	Set At	Packer At	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
2 3/8"	5056'	5056'			
Date of First, Resumed Production, SWD or Inj. 5/15/99--Completion		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		600			

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Other (Specify) _____

Production Interval: Dual Comp. Commingled _____

MAY 2 1999

DRILL-STEM TEST DATA

Well Name Kimble	Test No. 1
Well Number 35-1	Zone Tested Drum
Company Imperial Oil Properties Inc.	Date 4/6/99
Comp. Rep. J Williams	Tester Don Fabricius
Contractor Duke	Ticket No. 3295
Location 35-32-18	Elevation

Recorder No. 3088	Clock Range 12	Recorder No. 4377	Clock Range 12
Depth 4642		Depth 4626	
Initial Hydro Mud Press. 2356		Initial Hydro Mud Press. 2356	
Initial Shut-in Press. 1750		Initial Shut-in Press. 1752	
Initial Flow Press. 70-94		Initial Flow Press. 70-94	
Final Flow Press. 105-164		Final Flow Press. 105-164	
Final Shut-in Press. 1750		Final Shut-in Press. 1752	
Final Hydro Mud Press. 2356		Final Hydro Mud Press. 2356	
Temperature _____		Tool Open Before I. S. 30	Mins.
Mud Weight 9.0	Viscosity 42	Initial Shut-in 60	Mins.
Fluid Loss 11.2		Flow Period 60	Mins.
Interval Tested 4602-30		Final Shut-in 90	Mins.
Top Packer Depth 4597		Surface Choke Size 1 1/2	
Bottom Packer Depth 4602		Bottom Choke Size 3/4	
Total Depth 4630		Main Hole Size 7 7/8	
Drill Pipe Size 4 1/2 X H	Wt. 16.60	Rubber Size 6 3/4	
Drill Collar I. D. 2 1/4	Ft. Run 300		

Recovery—Total Feet _____

Recovered **430** Feet Of **Muddy water**

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Remarks

Strong blow gas to surface in 13 min, gauge -20,500 in 30 min second open-23,600 - in 10 min, 21, 800 in 20, 21,800 in 30, 23,600 in 40 min & stableized.

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MAY 2 1999

CONSERVATION DIVISION
 Wichita, Kansas

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By _____
 Owner, Operator or his Agent

DRILL-STEM TEST DATA

Well Name Kimble	Test No. 2
Well Number 35-1	Zone Tested Swope
Company Imperial Oil Properties Inc.	Date 4/7/99
Comp. Rep. J Williams	Tester Don Fabricius
Contractor Duke	Ticket No. 3296
Location 35-32-18	Elevation

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
Depth 4744 Depth 4748
Initial Hydro Mud Press. _____ Initial Hydro Mud Press. 2287
Initial Shut-in Press. _____ Initial Shut-in Press. 1821
Initial Flow Press. _____ Initial Flow Press. 352-598
Final Flow Press. Clock stopped Final Flow Press. 610-1054
Final Shut-in Press. _____ Final Shut-in Press. 1821
Final Hydro Mud Press. _____ Final Hydro Mud Press. 2287
Temperature _____ Tool Open Before I. S. I. 30 Mins.
Mud Weight 9.0 Viscosity 51 Initial Shut-in 60 Mins.
Fluid Loss 8 Flow Period 60 Mins.
Interval Tested 4720-52 Final Shut-in 90 Mins.
Top Packer Depth 4715 Surface Choke Size 1 1/2
Bottom Packer Depth 4720 Bottom Choke Size 3/4
Total Depth 4752 Main Hole Size 7 7/8
Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4
Drill Collar I. D. 2 1/4 Ft. Run 300

Recovery—Total Feet _____
Recovered 600 Feet Of Muddy water
Recovered 730 Feet Of water
Recovered _____ Feet Of _____
Recovered _____ Feet Of _____

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CONSERVATION DIVISION
Wichita, Kansas

Remarks
Gts in 2 min gauge- 58,100 in 10 - 77,800 in 20 - 80,300 in 30
sec open 41,200 in 10 - 58,300 in 20 - 121,000 in 30
133,000 in 40 - 175,000 in 50 - 175,000 in 60

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By _____
Owner Operator or his Agent

DRILL-STEM TEST DATA

Well Name Kimble	Test No. 3
Well Number 35-1	Zone Tested Hertha
Company Imperial Oil Properties Inc.	Date 4/7/99
Comp. Rep. J Williams	Tester Don Fabricius
Contractor Duke	Ticket No. 3297
Location 35-32-18	Elevation

Recorder No. <u>3088</u>	Clock Range <u>12</u>	Recorder No. <u>4377</u>	Clock Range <u>12</u>
Depth <u>4817</u>		Depth <u>4821</u>	
Initial Hydro Mud Press. <u>2356</u>		Initial Hydro Mud Press. <u>2356</u>	
Initial Shut-in Press. <u>636</u>		Initial Shut-in Press. <u>636</u>	
Initial Flow Press. <u>35-47</u>		Initial Flow Press. <u>35-47</u>	
Final Flow Press. <u>52-70</u>		Final Flow Press. <u>52-70</u>	
Final Shut-in Press. <u>447</u>		Final Shut-in Press. <u>447</u>	
Final Hydro Mud Press. <u>2356</u>		Final Hydro Mud Press. <u>2356</u>	
Temperature _____		Tool Open Before I. S. I. <u>30</u>	Mins.
Mud Weight <u>9.0</u>	Viscosity <u>47</u>	Initial Shut-in <u>30</u>	Mins.
Fluid Loss <u>8.8</u>		Flow Period <u>30</u>	Mins.
Interval Tested <u>4805-25</u>		Final Shut-in <u>30</u>	Mins.
Top Packer Depth <u>4800</u>		Surface Choke Size <u>1 1/2</u>	
Bottom Packer Depth <u>4805</u>		Bottom Choke Size <u>3/4</u>	
Total Depth <u>4825</u>		Main Hole Size <u>7 7/8</u>	
Drill Pipe Size <u>4 1/2 X H</u>	Wt. <u>16.60</u>	Rubber Size <u>6 3/4</u>	
Drill Collar I. D. <u>2 1/4</u>	Ft. Run <u>300</u>		

Recovery—Total Feet _____

Recovered 65 Feet Of _____ mud

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Remarks

Weak blow decreasing on initial flow

very weak blow dead in 17 min on final flow

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By _____
Owner, Operator or his Agent

DRILL-STEM TEST DATA

Well Name Kimble	Test No. 4
Well Number 35-1	Zone Tested Altamont
Company Imperial Oil Properties Inc.	Date 4/9/99
Comp. Rep. J Williams	Tester Don Fabricius
Contractor Duke	Ticket No. 3298
Location 35-32-18	Elevation

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
Depth 4963 Depth 4967
Initial Hydro Mud Press. 2367 Initial Hydro Mud Press. 2367
Initial Shut-in Press. 1681 Initial Shut-in Press. 1684
Initial Flow Press. 23-28 Initial Flow Press. 23-28
Final Flow Press. 23-23 Final Flow Press. 23-23
Final Shut-in Press. 1554 Final Shut-in Press. 1558
Final Hydro Mud Press. 2367 Final Hydro Mud Press. 2367
Temperature _____ Tool Open Before I. S. I. 30 Mins.
Mud Weight 9.2 Viscosity 51 Initial Shut-in 30 Mins.
Fluid Loss 10.4 Flow Period 60 Mins.
Interval Tested 4946-71 Final Shut-in 60 Mins.
Top Packer Depth 4941 Surface Choke Size 1 1/2
Bottom Packer Depth 4946 Bottom Choke Size 3/4
Total Depth 4971 Main Hole Size 7 7/8
Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4
Drill Collar I. D. 2 1/4 Ft. Run 300

Recovery—Total Feet _____

Recovered 30 Feet Of _____ mud

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Recovered _____ Feet Of _____

Remarks

Gas to surface on second open gauge 4,450 in 10 min - 3,370 in 20 min
& stable thru-test

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By _____
Owner, Operator or his Agent

DRILL-STEM TEST DATA

Well Name	Kimble	Test No.	5
Well Number	35-1	Zone Tested	Pawnee
Company	Imperial Oil Properties Inc.	Date	4/9/99
Comp. Rep.	J Williams	Tester	Don Fabricius
Contractor	Duke	Ticket No.	3299
Location	35-32-18	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
Depth 5011 Depth 5015
Initial Hydro Mud Press. 2458 Initial Hydro Mud Press. 2458
Initial Shut-in Press. 1681 Initial Shut-in Press. 1684
Initial Flow Press. 58-70 Initial Flow Press. 58-70
Final Flow Press. 82-117 Final Flow Press. 82-117
Final Shut-in Press. 1681 Final Shut-in Press. 1684
Final Hydro Mud Press. 2458 Final Hydro Mud Press. 2458
Temperature _____ Tool Open Before I. S. I. 30 Mins.
Mud Weight 9.1 Viscosity 57 Initial Shut-in 60 Mins.
Fluid Loss 9.6 Flow Period 60 Mins.
Interval Tested 4985-5019 Final Shut-in 90 Mins.
Top Packer Depth 4980 Surface Choke Size 1 1/2
Bottom Packer Depth 4985 Bottom Choke Size 3/4
Total Depth 5019 Main Hole Size 7 7/8
Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4
Drill Collar I. D. 2 1/4 Ft. Run 300

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Recovery—Total Feet _____
Recovered 170 Feet Of Gas cut mud
Recovered _____ Feet Of _____
Recovered _____ Feet Of _____
Recovered _____ Feet Of _____

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Wichita, Kansas

Remarks
Gas to surface in 15 min on initial shut in Second open gauge 16,700
in 10 min - 20,000 in 20 min - 25,100 in 30 min - 29,300 in 40 min -
30,700 in 50 min - 33,200 in 60 & still building.

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By _____
Owner, Operator or his Agent

DRILL-STEM TEST DATA

Well Name <u>Kimble</u>	Test No. <u>6</u>
Well Number <u>35-1</u>	Zone Tested <u>Miss</u>
Company <u>Imperial Oil Properties Inc.</u>	Date <u>4/10/99</u>
Comp. Rep. <u>J Williams</u>	Tester <u>Don Fabricius</u>
Contractor <u>Duke</u>	Ticket No. <u>3300</u>
Location <u>35-32-18</u>	Elevation

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
Depth 5108 Depth 5108
Initial Hydro Mud Press. 2526 Initial Hydro Mud Press. 2526
Initial Shut-in Press. 1381 Initial Shut-in Press. 1386
Initial Flow Press. 300-117 Initial Flow Press. 305-117
Final Flow Press. 189-117 Final Flow Press. 199-117
Final Shut-in Press. 1266 Final Shut-in Press. 1272
Final Hydro Mud Press. 2435 Final Hydro Mud Press. 2526
Temperature _____ Tool Open Before I. S. I. 30 Mins.
Mud Weight 9.0 Viscosity 48 Initial Shut-in 60 Mins.
Fluid Loss 9.6 Flow Period 60 Mins.
Interval Tested 5080-5112 Final Shut-in 90 Mins.
Top Packer Depth 5075 Surface Choke Size 1 1/2
Bottom Packer Depth 5080 Bottom Choke Size 3/4
Total Depth 5112 Main Hole Size 7 7/8
Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4
Drill Collar I. D. 2 1/4 Ft. Run 300

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Wichita, Kansas

Recovery—Total Feet _____
Recovered 320 Feet Of Gas cut muddy water
Recovered 30 Feet Of Heavy oil & gas cut mut
Recovered _____ Feet Of _____
Recovered _____ Feet Of _____

Remarks
Gst in 2 min 1 1/2" orifice gauge 1,123,000 in 10 - 341,000 in 20 - 251,000
in 30 - second open 295,000 in 10 - 197,000 in 20 - 116,000 in 30 -
change to 1 1/4" orifice - 158,000 in 40 - 128,000 in 50 - 120,000 in 60

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DRILL-STEM TEST DATA

Well Name Kimble	Test No. 7
Well Number 35-1	Zone Tested Miss
Company Imperial Oil Properties Inc.	Date 4/11/99
Comp. Rep. J Williams	Tester Don Fabricius
Contractor Duke	Ticket No. 3301
Location 35-32-18	Elevation

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth 5122 Depth 5126
 Initial Hydro Mud Press. 2515 Initial Hydro Mud Press. 2576
 Initial Shut-in Press. 58 Initial Shut-in Press. 58
 Initial Flow Press. 35-35 Initial Flow Press. 35-35
 Final Flow Press. 35-35 Final Flow Press. 35-35
 Final Shut-in Press. 35 Final Shut-in Press. 35
 Final Hydro Mud Press. 2515 Final Hydro Mud Press. 2520
 Temperature _____ Tool Open Before I. S. I. 20 Mins.
 Mud Weight 9.0 Viscosity 48 Initial Shut-in 20 Mins.
 Fluid Loss 9.6 Flow Period 20 Mins.
 Interval Tested 5112-30 Final Shut-in 20 Mins.
 Top Packer Depth 5107 Surface Choke Size 1 1/2
 Bottom Packer Depth 5112 Bottom Choke Size 3/4
 Total Depth 5130 Main Hole Size 7 7/8
 Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4
 Drill Collar I. D. 2 1/4 Ft. Run 300

Recovery—Total Feet _____
 Recovered 15 Feet Of _____ mud
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____

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 Wichita, Kansas

Remarks Very weak blow for 30 seconds - flushed tool surge

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By _____
 Owner Operator or his Agent

DRILL-STEM TEST DATA

Well Name	Kimble	Test No.	8
Well Number	35-1	Zone Tested	Viola
Company	Imperial Oil Properties Inc.	Date	4/13/99
Comp. Rep.	J Williams	Tester	Don Fabricius
Contractor	Duke	Ticket No.	3302
Location	35-32-18	Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12
 Depth _____ Depth _____
 Initial Hydro Mud Press. _____ Initial Hydro Mud Press. 2708
 Initial Shut-in Press. _____ Initial Shut-in Press. not taken
 Initial Flow Press. Clock Stopped Initial Flow Press. 1002-1692
 Final Flow Press. _____ Final Flow Press. _____
 Final Shut-in Press. _____ Final Shut-in Press. _____
 Final Hydro Mud Press. _____ Final Hydro Mud Press. 2708
 Temperature _____ Tool Open Before I. S. I. 30 Mins.
 Mud Weight 9.1 Viscosity 47 Initial Shut-in 10 Mins.
 Fluid Loss 9 Flow Period _____ Mins.
 Interval Tested 5595-5627 Final Shut-in _____ Mins.
 Top Packer Depth 5590 Surface Choke Size 1 1/4
 Bottom Packer Depth 5595 Bottom Choke Size 3/4
 Total Depth 5627 Main Hole Size 7 7/8
 Drill Pipe Size 4 1/2 X H Wt. 16.60 Rubber Size 6 3/4
 Drill Collar I. D. 2 1/4 Ft. Run 300

Recovery—Total Feet _____
 Recovered 3000 Feet Of Gas cut water
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____
 Recovered _____ Feet Of _____

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 MAY 26 1999
 CONSERVATION DIVISION
 Wichita, Kansas

Remarks
Gas to surface in 4 min Gauge - 62,000 in 10 min - 15,000 in 20
spray mud & water in 30 min pulled tool loose when spray water

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS: It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

By _____
 Owner Operator or his Agent

WILLBURTON

JOB SUMMARY 4239-1

TICKET # **40110** TICKET DATE **3-30-99**

BDA / STATE **Ks** COUNTY **Camanche**

PSL DEPARTMENT **5002**

CUSTOMER REP / PHONE

API / UWI #

JOB PURPOSE CODE **010**

North America NW/COUNTRY **Midcontinent**

EMP # **6112** EMPLOYEE NAME **R Crist**

LOCATION **Liberal** COMPANY **Imperial Oil Properties**

TICKET AMOUNT **5494.71** WELL TYPE **01**

WELL LOCATION **Land** DEPARTMENT **5002**

LEASE / WELL # **Kimble 35-1** SEC / TWP / RNG **35-325-184**

HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#(EXPOSURE HOURS) HRS
R Crist 105943 57.5			
J Woodrow 105848 57.5			
R Ferguson 106154 57.5			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
470091	218	120					
54038-77941	218	120					
52923-6610		60					

Form Name _____ Type: _____

Form Thickness _____ From _____ To _____

Packer Type _____ Set At _____

Bottom Hole Temp. _____ Pressure _____

Misc. Data _____ Total Depth _____

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	3-30-99	3-30-99	3-30-99	3-30-99
TIME	0955	1300	1536	1730

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe Reg	1	
Centralizers	3	
Bottom Plug		
Top Plug Alum 8 5/8	1	
Head	1	
Packer		
Other Clamp	1	

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	23	8 7/8	KB	653'	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
TOTAL:		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED _____ Avail. _____ Used _____

TREATED _____ **AVERAGE RATES IN BPM** _____ **Overall** _____

_____ **CEMENT LEFT IN PIPE** _____ **Overall** _____

FEET _____ **Reason** _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	140	Pr Midcont	B	3% CC 3/8" Floccle	3.12	11.2
	100	Prominer	B	2% CC 1/4" Floccle	1.19	15.6

Circulating _____ Displacement **39.7** Preflush: Gal - BBI _____ Type _____

Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____

Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal _____

Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI **77.7 CC 21 TC**

Total Volume Gal - BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT

Wichita, Kansas

CUSTOMER'S REPRESENTATIVE SIGNATURE

[Signature]

ALLIBURTON

JOB LOG 4239-5

TICKET #

TICKET DATE

North America

NW/COUNTRY

BDA / STATE

COUNTY

EMP #

EMPLOYEE NAME

PSL DEPARTMENT

LOCATION

COMPANY

CUSTOMER REP / PHONE

TICKET AMOUNT

WELL TYPE

API / UWI #

WELL LOCATION

DEPARTMENT

JOB PURPOSE CODE

LEASE / WELL #

SEC / TWP / RNG

RES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS | RES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS | RES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS | RES EMP NAME/EMP#/(EXPOSURE HOURS) | HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0855							Called out
	1000							Leave yard
	1300							on location Drilling
	1345							weld collars & Guide shoe strap 1st 3
	1539							Start casing
	1644							Csg Ran Hook To Circulate
	1656							Safety meeting
	1700	6	27	✓		100		Press Test
	1715	6	21			100		Start Lead CMT 11.2 gal
	1719							Start Tail CMT 15.6 gal
	1722	5.5	35			95		Shut Down & Drop Plug
	1727	2	5					Start Displacement
	1730							Slow Rate
								Bump Plug Float Held

RECEIVED

STATE CORPORATION COMMISSION

JUN 11 2 1977

CONSERVATION DIVISION
Wichita, Kansas

COUNTY
 COUNTRY
 US
 EMPLOYEE NAME
 COMPANY
Imperial
 WELL TYPE
 DEPARTMENT
2
 SEC / TWP / RNG

TICKET #	511 55	TICKET DATE	4-14-99
BDA / STATE	KS.	COUNTY	Comanche
PSL DEPARTMENT	ZE	CUSTOMER REP / PHONE	Oil Properties Ron Schroeder
API / UWI #		JOB PURPOSE CODE	035

32-18

EMP NAME/EMP#(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#(EXPOSURE HOURS)	HRS
Kimble 35-1					

TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	4-14-99 0100	4-14-99 0530	4-14-99 1250	4-14-99 1400

WELL DATA						
	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	15-5	5 1/2	KB	5627	
Liner						
Liner						
Tho/D.P.						
Open Hole						SHOTS/FT.
Perforations						

HOURS ON LOCATION	OPERATING HOURS		DESCRIPTION OF JOB
	HOURS	DATE	
			CMPT
			5 1/2
			1-1
TOTAL			

HYDRAULIC HORSEPOWER: ORDERED _____ Avail. _____ Used _____
 AVERAGE RATES IN BPM: ORDERED _____ Disp. _____ Overall _____
 FEET 41 CEMENT LEFT IN PIPE Reason S.J.

CEMENT DATA		YIELD	LBS/GAL
ADDITIVES	.25% P. Air 5" G.I.S. 270 gal	1.54	14.6
	.37% Hail 9"		
	Not employed	1.18	15.6

Min	Preflush: Gal (BB) 20	Type H ₂ O CSE
	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
	Treatment Gal - BBI	Disp (BB) Gal 133
	Cement Slurr Gal (BB) 59	S.S.V. N.E.M.
	Total Volume Gal BBI	

Frac Ring #3 _____ Frac Ring #4 _____
 CUSTOMER'S REPRESENTATIVE SIGNATURE
 Ronald Schroeder

COMPANY
Imperial
 WELL TYPE
 DEPARTMENT
2
 SEC / TWP / RNG
 EMP NAME/EMP#(EXPOSURE HOURS)
 HES UNIT NUMBERS
 R/T MILES
 HES UNIT NUMBERS
 R/T MILES
 TYPE AND SIZE
 QTY
 MAKE
 TOTAL
 CCEP

RECEIVED
 STATE COMMISSION
 JUN 02 1999
 CONSERVATION DIVISION
 Wichita, Kansas
 Displacement
 Maximum
 Grad Gradient
 STATED HEREIN IS CORRECT

NONP
JOB LOG 239-5

TICKET #	TICKET DATE
NWA/COUNTRY	BDA / STATE
EMPLOYEE NAME	PSL DEPARTMENT
COMPANY	CUSTOMER REP / PHONE
WELL TYPE	API / UWI #
DEPARTMENT	JOB PURPOSE CODE
SEC / TWP / RNG	

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS

CHART NO.	TIME	RATE (BPM)	VOLUME (EBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0100							Called out for job.
	0530							on Loc mid L.O.D.P
	0700							Out of hole w/d.p L.O Nym snipple down.
	0900							Start 5 1/2 csg & F.F.
	1132							csg on both hook up 5 1/2 p.c. & circ iron.
	1138							brk circ w/mid.
	1140							circ to pit
	1240							Then circ hook iron to pit. ✓
	1242							psi test iron.
	1245	6.0	5		✓			450 pump H ₂ O
	1246	6.0	10		✓			450 pump Super flush.
	1248	6.0	5		✓			450 pump H ₂ O
	1250	0						0 Shut down plug Kof and move.
	1258	6.5	59		✓			450 pump 215 sx prem Eq2 cm+ H+ 14.6 ¹²
	308	0			✓			0 Shut down wash up & stop plug.
	1312	7.5	133		✓			100 pump DISP
	1326	6.5	133		✓			95 95 bbls in Lift cm+
	1330	2.0	133		✓			500 124 bbls in 510 rate.
	1335	2.0	133		✓			1150 Land plug.
	1336	0	133		✓			1150 0 Release float - HELD.
					✓			Plug Kof move KOF.
	1400							Job over
								Thanks for calling HES Liberal KS.
								TYPE, SCOT & CREW