

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

3 ORIGINAL

Operator: License # 3880  
Name: KC Resources, Inc.  
Address: PO Box 1118  
City/State/Zip: Cardiff, CA 92007  
Purchaser: Kelly Macclaskey  
Operator Contact Person: Bobbi Duley  
Phone: (760) 753-3330  
Contractor: Name: Pratt Well Service  
License: 5893  
Wellsite Geologist: \_\_\_\_\_

CONSERVATION DIVISION  
Wichita, Kansas

Designate Type of Completion: RED-24-2000  
 New Well  Re-Entry  Workover  
 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: Texaco (Skelly Oil)  
Well Name: Miles B 3

Original Comp. Date: 3/24/34 Original Total Depth: 3480'  
 Deepening  Re-perf.  Conv. to Enhr./SWD  
 Plug Back  Plug Back Total Depth  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)  Docket No. \_\_\_\_\_

12/28/99 1/3/00 1/8/00  
Open Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 095190090002  
County: Kingman  
NE SE SW SE Sec. 19 Twp. 27 S. R. 10  East  West  
440' FSL feet from S (N) (circle one) Line of Section  
1,490' FEL feet from E (W) (circle one) Line of Section

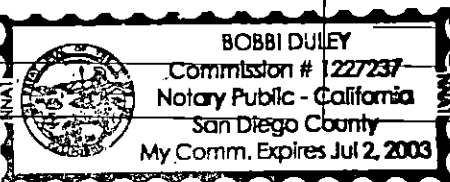
Footages Calculated from Nearest Outside Section Corner:  
(N) (circle one) NE (SE) NW SW  
Lease Name: Miles B Well #: 3  
Field Name: Cunningham  
Producing Formation: Lower KC Lansing  
Elevation: Ground: 1,710' Kelly Bushing: 1,710'  
Total Depth: 3,575' Plug Back Total Depth: 3,568'  
Amount of Surface Pipe Set and Cemented at 3,575' Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from N/A  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx crnt.

Drilling Fluid Management Plan Re-work, 8-23-00  
(Data must be collected from the Reserve Pit) W.C.  
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. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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: Gloria Colombo  
Title: Controller Date: 7-19-00  
Subscribed and sworn to before me this 19 day of July  
2000  
Notary Public: Bobbi Duley  
Date Commission Expires: July 2, 2003



**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: KC Resources, Inc. Lease Name: Miles B Well #: 3  
 Sec. 19 Twp. 27 S. R. 10  East  West County: Kingman

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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)

Log Formation (Top), Depth and Datum  Sample  
 Name Top Datum

List All E. Logs Run:

*Gamma Ray Neutron*

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	# Sacs Used	Type and Percent Additives
<i>Surface</i>	<i>7"</i>	<i>12 1/4"</i>		<i>292</i>		<i>250</i>	
<i>Long String</i>	<i>7"</i>	<i>7"</i>		<i>3511'</i>		<i>500</i>	
<i>Production</i>		<i>4.5"</i>		<i>3575'</i>			
<i>Run 308' of 4 1/2" inside of 7" to 3580'</i>					<i>60/40 Poz</i>	<i>51</i>	

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
8	3510'-14'	500 gal. 15% mud acid	
18	3517'-26'	1,000 gal. 15% I-5	
24	3538'=50'		

TUBING RECORD Size: 103 jts. 2 7/8", Set At: 10 jts. 2 3/8" Packer At: \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumerd Production, SWD or Enhr. 1/8/00 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 4 Bbls. Gas 280 Mcf Water 280 Bbls. Gas-Oil Ratio \_\_\_\_\_ Gravity 34-35

Disposition of Gas \_\_\_\_\_ METHOD OF COMPLETION  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_  
 (If vented, Sumit ACO-18.)  Other (Specify) \_\_\_\_\_

SERVICE TICKET

No 5036

UNITED CEMENTING & ACID CO., INC.

BOX 712

EL DORADO, KANSAS 67042

PHONE AC 316-321-4660

DATE 12-31-99 COUNTY Pratt  
 CHG. TO: Crystal River ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
 LEASE & WELL NO. Mile B #3 SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_  
 CONTRACTOR Pratt Well Service TIME ON LOCATION 11:00 A  
 KIND OF JOB Liner

SERVICE CHARGE: 3580 OW 859.48

QUANTITY	MATERIAL USED TYPE		
50 gal	60/40 pg	@ 4.55	227.50
1 gal	Gal	@ 9.00	9.00
1 ea	4 1/2 Liner Shoe + Tool Rental		880.00
308 ft	4 1/2 Csg Delivered	@ 4.50	1386.00
57 ft	BULK CHARGE	@ .87	44.37
	BULK TRK. MILES <u>Minimum</u>		85.00
42	PUMP TRK. MILES	@ 4.00	168.00
	PLUGS <u>None</u>		
	SALES TAX		215.90
	TOTAL		3875.25

T. D. 3580 CSG. SET AT 3402 + 3580 VOLUME \_\_\_\_\_  
 SIZE HOLE \_\_\_\_\_ TBG SET AT 3580 VOLUME \_\_\_\_\_  
 MAX. PRESS. 500 SIZE PIPE 7" Csg 3402 - 4 1/2 - 3273 - 3580  
 PLUG DEPTH \_\_\_\_\_ PKER DEPTH \_\_\_\_\_  
 PLUG USED \_\_\_\_\_ TIME FINISHED 6:00 P

REMARKS: Ran 308' of 4 1/2 inside of 7" to 3580' - Break Circulation, Mix + Pump 50 gal 60/40 pg 2 gal - Displaced Cement with 19 BBIS (1 BBIS CEMENT IN TUB) - Stop Circulation to 500' + Hold for 25 min - Unscrew from Liner Shoe + Reverse out Clean with 45 BBIS Fresh H<sub>2</sub>O - Pull Tub to 3100 ft

EQUIPMENT USED

NAME Chet Johnson UNIT NO. 14 | NAME Harold Anderson UNIT NO. 7

ORIGINAL

# MUD-CO / SERVICE MUD INC.

155 North Market, Suite 1050 / Wichita, KS 67202 / 316-264-2814

DRILLING MUD REPORT REPORT NO. 1

DATE 12-27-1999 DEPTH \_\_\_\_\_

API WELL NO. \_\_\_\_\_ STATE \_\_\_\_\_ COUNTY \_\_\_\_\_

OPERATOR KC Resources

CONTRACTOR Pratt Well

RIG NO. 27

ADDRESS Big

ADDRESS Big

SPUD DATE \_\_\_\_\_

REPORT FOR MR. \_\_\_\_\_

REPORT FOR MR. Ken Gates

SECTION, TOWNSHIP, RANGE 19-27-10W

WELL NAME AND NO. "3 miles B"

FIELD OR BLOCK NO. \_\_\_\_\_

COUNTY Kingman

STATE KANSAS

OPERATION	
PRESENT ACTIVITY	
BIT SIZE (IN.)	NO.
DRILL PIPE SIZE	TYPE
DRILL COLLAR SIZE	LENGTH

CASING	
SURFACE	
IN. at	FT.
INTERMEDIATE	
IN. at	FT.
PRODUCTION OR LINER	
IN. at	FT.
MUD TYPE	

MUD VOLUME (BBL)	
HOLE	PITS
TOTAL CIRCULATING VOLUME	
IN STORAGE	

CIRCULATION DATA			
PUMP SIZE	X	IN.	ANNULAR VEL. (FT./MIN.)
PUMP MAKE			OPPOSITE DP
MODEL			OPPOSITE COLLAR
BBL/STROKE	STROKE/MIN		CIRCULATING PRESSURE PSI
BBL/MIN.			BOTTOMS UP (MIN.)
SYSTEM TOTAL (MIN.)			

Sample from  Flowline  Pit Flowline Temperature \_\_\_\_\_ °F MUD PROPERTIES

DAILY COST 0 CUMULATIVE COST 0

Time Sample Taken	AM	PM		
Depth (ft)				
Weight <input type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)				
Mud Gradient (psi/ft)				
Funnel Viscosity (sec/qt) API at _____ °F				
Plastic Viscosity cp at _____ °F				
Yield Point (lb/100 sq ft)				
Gel Strength (lb/100"sq ft) 10 sec/10 min	1	1	1	
pH <input type="checkbox"/> Strip <input type="checkbox"/> Meter				
Filtrate API (ml/30 min)				
Cake Thickness 32nd in API <input type="checkbox"/> HP-HT <input type="checkbox"/>				
Alkalinity, Mud (pH)				
Alkalinity, Filtrate (Pr/Mr)	1	1	1	
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm				
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)				
Sand Content (% by Vol)				
Solids Content (% by Vol)				
Oil Content (% by Vol)				
Water Content (% by Vol)				
L.C.M. #/bbl				
Preservative #/bbl				

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <u>Below 9.0</u>	VISCOSITY <u>32-33</u>	FILTRATE
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

**MATERIALS RECOMMENDED**

Suggest:

To clean out 7" csg to 3480' and deepen well approx 100'

- Add premix as needed for a 32-33 sec/qt viscosity to clean hole and/or carry cement  
80 bbls fresh water  
2 sxs Soda Ash  
~~1 sxs B. Carbonate & Soda~~  
10-12 sxs Gel  
4 sxs hulls 1st 2 tanks
- Lost circulation material as needed  
If loss occurs add hulls, multi seal, Cedar & Cello (20 sxs hulls, 5 sxs Multi Seal, 5 sxs Cedar & 4 sxs Cello)
- Keep hole full on trip

MUD ON HAND/USED		MUD ON HAND/USED	
112	Premium Gel		P-10L
10	Soda Ash		PHPA
	Caustic Soda		Driscap
	Super Lig	80	C/S Hulls
	Lime	15	Multi Seal
4	Bi Carb	15	Cedar
		10	Cello

Thanks

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE <u>Jim WIESNER</u>	HOME ADDRESS <u>Grant Blvd</u>	TELEPHONE <u>793-7957</u>
MOBILE UNIT: <u>316 793-2424</u>	WAREHOUSE LOCATION <u>Pratt</u>	TELEPHONE <u>793-7514</u>

**MUD-CO / SERVICE MUD, INC.**

155 North Market, Suite 1050 / Wichita, KS 67202. / 316-264-2814

DRILLING MUD REPORT REPORT NO. 2

DATE 2-29-1999 DEPTH 3512

API WELL NO. STATE COUNTY

OPERATOR <i>KC Resources</i>		CONTRACTOR <i>Pratt Well</i>		RIG NO. <i>27</i>	
ADDRESS <i>Big</i>		ADDRESS <i>Big</i>		SPUD DATE <i>12-29-99</i>	
REPORT FOR MR. <i>Bob Houland</i>		REPORT FOR MR. <i>Kenny Gates</i>		SECTION, TOWNSHIP, RANGE <i>19-27-10W</i>	
WELL NAME AND NO. <i>#3 Miles "B" OWWO</i>		FIELD OR BLOCK NO.		STATE <i>KANSAS</i>	
		COUNTY <i>KINGMAN</i>			

OPERATION		CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
PRESENT ACTIVITY <i>Drly</i>		SURFACE <i>12 1/2 IN. at 292 FT.</i>		HOLE PITS <i>133 150</i>		PUMP SIZE X IN. <i>4 1/2 8</i>		ANNULAR VEL. (FT./MIN.) OPPOSITE DP	
BIT SIZE (IN.) NO. <i>6 7/8 1</i>		INTERMEDIATE <i>7 IN. at 3402 FT.</i>		TOTAL CIRCULATING VOLUME <i>283</i>		PUMP MAKE MODEL		OPPOSITE COLLAR	
DRILL PIPE SIZE TYPE <i>2 7/8 Tubing</i>		PRODUCTION OR LINER IN. at FT.		IN STORAGE <i>60 bbls</i>		BBL/STROKE STROKE/MIN <i>.035 56</i>		CIRCULATING PRESSURE PSI	
DRILL COLLAR LENGTH SIZE		MUD TYPE				BBL/MIN. <i>1.96</i>		BOTTOMS UP (MIN.) SYSTEM TOTAL (MIN.) <i>68 + 14 + +</i>	

Sample from <input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pit	MUD PROPERTIES	DAILY COST <i>510.85</i>	CUMULATIVE COST <i>510.85</i>
Flowline Temperature °F			

Time Sample Taken	AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	<i>2:30</i>		
Depth (ft)		<i>3512</i>		
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft)		<i>8.4</i>		
Mud Gradient (psi/ft)		<i>1.436</i>		
Funnel Viscosity (sec/qt) API at °F		<i>32</i>		
Plastic Viscosity cp at °F		<i>3</i>		
Yield Point (lb/100 sq ft)		<i>1</i>		
Gel Strength (lb/100 sq ft) 10 sec/10 min		<i>112</i>	<i>1</i>	<i>1</i>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter		<i>9.0</i>		
Filtrate API (ml/30 min)		<i>26.4</i>		
Cake Thickness 32nd in API <input type="checkbox"/> HP-HT <input type="checkbox"/>		<i>1</i>		
Alkalinity, Mud (P <sub>m</sub> )				
Alkalinity, Filtrate (P <sub>f</sub> /M <sub>f</sub> )		<i>1.4</i>	<i>1</i>	<i>1</i>
Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm		<i>8,600</i>		
Calcium <input checked="" type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb)		<i>330</i>		
Sand Content (% by Vol)				
Solids Content (% by Vol)		<i>.03</i>		
Oil Content (% by Vol)				
Water Content (% by Vol)		<i>99.7</i>		
L.C.M. #/bbl		<i>1*</i>		
Preservative #/bbl				

MUD PROPERTIES SPECIFICATIONS		
WEIGHT <i>Below 9.0</i>	VISCOSITY <i>32-35</i>	FILTRATE
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

**MATERIALS RECOMMENDED**

*Suggest:*

- Maintain a 32-35 sec/qt viscosity with premix - 80 bbls fresh water 2 sxs Soda Ash 14-20 sxs Gel 3-4 sxs hulls Add premix slow over ONE circulation (approx 2 hrs 25 min)*
- Hulls, multi seal, Cedar & cello flake for lost circulation material as needed*

MUD ON HAND/USED		MUD ON HAND/USED	
<i>63</i>	<i>49</i>		P-10L
<i>2</i>	<i>8</i>		PHPA
			Driscap
		<i>74</i>	<i>6</i>
		<i>15</i>	Multi Seal
<i>4</i>		<i>15</i>	Cedar
		<i>10</i>	Cello

*Thanks*

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE <i>Jim Wiesner</i>	HOME ADDRESS <i>Great Bend</i>	TELEPHONE HOME <i>793-7514</i>
MOBILE UNIT <i>793-2421</i>	WAREHOUSE LOCATION <i>Pratt</i>	TELEPHONE <i>672-2957</i>

**MUD-CO / SERVICE MUD INC.**

DRILLING MUD REPORT REPORT NO. 3

DATE -30-1999 DEPTH 3540

155 North Market, Suite 1050 / Wichita, KS 67202 / 316-264-2814

API WELL NO. STATE COUNTY

OPERATOR: <u>KIC Resources</u>	CONTRACTOR: <u>Pratt Well</u>	RIG NO.: <u>37</u>
ADDRESS: <u>Rig</u>	ADDRESS: <u>Rig</u>	SPUD DATE: <u>12-29-99</u>
REPORT FOR MR.: <u>Rod Houland</u>	REPORT FOR MR.: <u>Kenny Gates</u>	SECTION, TOWNSHIP, RANGE: <u>19-27-10W</u>
WELL NAME AND NO.: <u>#3 Miles "B" OWWO</u>	FIELD OR BLOCK NO.	COUNTY: <u>KINGMAN</u> STATE: <u>KANSAS</u>

OPERATION	CASING	MUD VOLUME (BBL)	CIRCULATION DATA
PRESENT ACTIVITY: <u>Delg</u>	SURFACE: <u>12 1/2 IN. at 292 FT.</u>	HOLE: <u>134</u> PITS: <u>140</u>	PUMP SIZE X IN.: <u>4 1/2 X 8</u> ANNULAR VEL. (FT./MIN.): <u>OPPOSITE DP</u>
BIT SIZE (IN.): <u>6 7/8</u> NO.: <u>1</u>	INTERMEDIATE: <u>7 IN. at 3402 FT.</u>	TOTAL CIRCULATING VOLUME: <u>274</u>	PUMP MAKE: MODEL: <u>.035</u> STROKE/MIN: <u>56</u> CIRCULATING PRESSURE PSI: <u>68+</u>
DRILL PIPE SIZE: <u>2 7/8 Tubing</u> TYPE: <u>Tubing</u>	PRODUCTION OR LINER: <u>IN. at FT.</u>	IN STORAGE: <u>60 bbls</u>	BBL/STROKE: <u>1.96</u> STROKE/MIN: <u>56</u> CIRCULATING PRESSURE PSI: <u>139+</u>
DRILL COLLAR SIZE: <u>PREMIX</u>	MUD TYPE: <u>PREMIX</u>		BOTTOMS UP (MIN.): <u>68+</u> SYSTEM TOTAL (MIN.): <u>139+</u>

Sample from <input type="checkbox"/> Flowline <input type="checkbox"/> Pit <input type="checkbox"/> Flowline Temperature <input type="checkbox"/> F	MUD PROPERTIES	DAILY COST: <u>0</u>	CUMULATIVE COST: <u>510.85</u>
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Time Sample Taken: <u>AM</u> PM <u>11:10</u>	Depth (ft): <u>3540</u>
Weight <input checked="" type="checkbox"/> (ppg) <input type="checkbox"/> (lb/cu ft): <u>8.4</u>	Mud Gradient (psi/ft): <u>.436</u>
Funnel Viscosity (sec/qt) API at <u>33</u> °F	Plastic Viscosity cp at <u>5</u> °F
Yield Point (lb/100 sq ft): <u>3</u>	Gel Strength (lb/100 sq ft) 10 sec/10 min: <u>213</u>
pH <input checked="" type="checkbox"/> Strip <input type="checkbox"/> Meter: <u>8.5</u>	Filtrate API (ml/30 min): <u>28.8</u>
Cake Thickness 32nd in API <input type="checkbox"/> HP-HT <input type="checkbox"/> : <u>2</u>	Alkalinity, Mud (P <sub>m</sub> ): <u>761</u>
Alkalinity, Filtrate (P <sub>f</sub> /M <sub>f</sub> ): <u>700</u>	Salt <input type="checkbox"/> ppm <input type="checkbox"/> Chloride <input type="checkbox"/> ppm: <u>200</u>
Calcium <input type="checkbox"/> ppm <input type="checkbox"/> Gyp (ppb): <u>200</u>	Sand Content (% by Vol): <u>.03</u>
Solids Content (% by Vol): <u>.03</u>	Oil Content (% by Vol): <u>99.97</u>
Water Content (% by Vol): <u>99.97</u>	L.C.M. #/bbl: <u>12</u>
Preservative #/bbl: <u>12</u>	

MUD PROPERTIES SPECIFICATIONS		
WEIGHT: <u>Below 9.0</u>	VISCOSITY: <u>32-35</u>	FILTRATE: <u>28.8</u>
BY AUTHORITY <input type="checkbox"/> OPERATOR'S WRITTEN <input type="checkbox"/> DRILLING CONTRACTOR <input type="checkbox"/> OPERATOR'S REPRESENTATIVE <input type="checkbox"/> OTHER		

**MATERIALS RECOMMENDED**

*Suggest:*

- Maintain a 32-35 sec/qt viscosity with premix - 80 bbls fresh water  
2 sxs Soda Ash  
14-20 sxs Grl  
3-4 sxs Hulls
- Add premix slow over one full circulation (approx 2 hrs 25 min)
- Hulls, multi seal, cello & cello filler for lost circulation material as needed

MUD ON HAND/USED	MUD ON HAND/USED
<u>63</u> Premium Gel	P-10L
<u>8</u> Soda Ash <u>6</u>	PHPA
Caustic Soda	Drispac
Super Lig	C/S Hulls
Lime	Multi Seal
<u>4</u> Bi Carb	<u>74</u> Cedar
	<u>15</u> Cello
	<u>15</u>
	<u>10</u>

*Thanks*

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REPRESENTATIVE: <u>Jim Wiesner</u>	HOME ADDRESS: <u>Great Bend</u>	TELEPHONE: <u>HOME 793-7514</u>
MOBILE UNIT: <u>793-2421</u>	WAREHOUSE LOCATION: <u>Pratt</u>	TELEPHONE: <u>612-2957</u>



SERVICE MUD INC.

155 North Market, Suite 1050 / Wichita, KS: 67202 / 316-264-2814

DRILLING MUD REPORT: REPORT NO. 4

DATE: 2-31-1999 DEPTH: 3575

API WELL NO. STATE COUNTY

OPERATOR: K.C. RESOURCES CONTRACTOR: PRATT WELL RIG NO. 27

ADDRESS: Rig ADDRESS: Rig SPUD DATE: 12-29-99

REPORT FOR MR. Rod Houland REPORT FOR MR. KENNY GATES SECTION, TOWNSHIP, RANGE: 19-27-10W

WELL NAME AND NO. #3 Miles "B" OWWO FIELD OR BLOCK NO. COUNTY KINGMAN STATE KANSAS

OPERATION		CASING SURFACE		MUD VOLUME (BBL)		CIRCULATION DATA	
PRESENT ACTIVITY	Circ @ T.O	12 1/2 IN. at	292 FT.	HOLE	135 150 PITS	PUMP SIZE X IN.	ANNULAR VEL. (FT./MIN.)
BIT SIZE (IN.)	NO. 6 1/8	INTERMEDIATE	7 IN. at	TOTAL CIRCULATING VOLUME	285	PUMP MAKE	OPPOSITE DP.
DRILL PIPE SIZE	TYPE 2 7/8 Tubing	PRODUCTION OR LINER	IN. at FT.	IN STORAGE	20 bbls - 52 1/2	MODEL	OPPOSITE COLLAR
DRILL COLLAR SIZE	LENGTH	MUD TYPE	PREMIX	BBL/STROKE	1.035	STROKE/MIN	CIRCULATING PRESSURE PSI
				BBL/MIN.	1.96		BOTTOMS UP (MIN.) 68+
							SYSTEM TOTAL (MIN.) 145+

Sample from  Flowline  Pit Flowline Temperature °F

MUD PROPERTIES DAILY COST 56.95 CUMULATIVE COST 567.80

Time Sample Taken (AM) PM 10:05

Depth (ft) 3575

Weight  (ppg)  (lb/cu ft)

Mud Gradient (psi/ft)

Funnel Viscosity (sec/qt) API at °F

Plastic Viscosity cp at °F

Yield Point (lb/100 sq ft)

Gel Strength (lb/100 sq ft) 10 sec/10 min 1 1 1

pH  Strip  Meter

Filtrate API (ml/30 min)

Cake Thickness 32nd in API  HP-HT

Alkalinity, Mud (P<sub>m</sub>)

Alkalinity, Filtrate (P<sub>f</sub>/M<sub>f</sub>) 1 1 1

Salt  ppm  Chloride  ppm  Gyp (ppb)

Calcium  ppm  Gyp (ppb)

Sand Content (% by Vol)

Solids Content (% by Vol)

Oil Content (% by Vol)

Water Content (% by Vol)

L.C.M. #/bbl

Preservative #/bbl

MUD PROPERTIES SPECIFICATIONS

WEIGHT VISCOSITY FILTRATE

BY AUTHORITY  OPERATOR'S WRITTEN  DRILLING CONTRACTOR  OPERATOR'S REPRESENTATIVE  OTHER

MATERIALS RECOMMENDED

Suggest:

- Spot mud in premix tank on bottom prior to coming out to run LINER
- Keep hole full on trips out

MUD ON HAND/USED		MUD ON HAND/USED	
63	3	Premium Gel	P-10L
5	3	Soda Ash	PHPA
		Caustic Soda	Drispac
		Super Lig	C/S Halls
		Lime	Multi Seal
4		Bi Carb	Cedar
			Cello

THANKS

THE RECOMMENDATIONS MADE HEREON SHALL NOT BE CONSTRUED AS AUTHORIZING THE INFRINGEMENT OF ANY VALID PATENT, AND ARE MADE WITHOUT ASSUMPTION OF ANY LIABILITY BY MUD-CO / SERVICE MUD, INC. OR ITS AGENTS, AND ARE STATEMENTS OF OPINION ONLY.

REPRESENTATIVE: Jim Wiesner HOME ADDRESS: Great Bend TELEPHONE: 793-7957

MOBILE UNIT: 793-4421 WAREHOUSE LOCATION: Pratt TELEPHONE: 793-7514

TELEPHONE: 1-877-2957

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ORIGINAL .III 24 2000

PW60873  
January 5, 2000 CONSERVATION DIVISION  
Wichita, Kansas

COMPANY CRYSTAL RIVER OIL & GAS No. 0376  
ADDRESS PO BOX 1118 DATE DEC. 24, 99-JAN. 8, 2000  
CARDIFF, CA 92007 CALLED BY ROD HOVELAND

ORDER NO.  
LEASE MILES WELL NO. B-3 COUNTY KINGMAN  
UNIT 27 OPERATOR/FOREMAN CARLOS GARCIA  
EQUIP-TYPE SINGLE DERRICK JOB DESCRIPTION WORKOVER-DEEPING

DECEMBER 24, 1999  
Drove to PWSI yard and shut down for the day.  
(foreman-2 men-1/2 hour each) (pickup-1/2 hour)

DECEMBER 27, 1999  
To location, rigged up. Could not unseat pump. Rigged up stripping tool. Tripped out 16' polish rod, 2-4', 1-6"x3/4" subs and 75-3/4" rods, had bad breaks from there on. Pulled 96 joints 2 7/8" tubing and rest of tubing was filled with BS. Came out with total of 102 joints 2 7/8" tubing, seating nipple and 15' mud anchor. Pump was stuck in last joint. Closed well in and shut down for the day.  
(unit-11 hours) (foreman-2 men-12 hours each) (pickup-1 hour) (power tongs-1 trip) (head adapter) (stripping tool)

DECEMBER 28, 1999  
To location, changed tong inserts, R. table on tongs and spider slips to 4 1/2". Tripped in 6 1/8" bit, 3 1/2" Reg. x 3 1/2" IF change over sub, 3-4" drill collars, 3 1/2" IF x 2 7/8" Reg. and 99 joints 2 7/8" tubing. Tagged bottom @ 3325' and it was soft. Installed 2 7/8" stripping rubber and put rod line on 4 lines with weight indicator. Rigged up power sub with Hydi holes and flow line to pit. Rigged up pump line to well and pump line from premix pit to reserve pit. Mixed gel and soda ash, mixed total of 35 sks gel, 6 sks soda ash and 4 sks cotton seed hulls. Circulated premix pit and reserve pit around and readied for next day. Closed well in and shut down for the day.  
(unit-10 hours) (foreman-2 men-11 hours each) (pickup-1 hour) (power tongs-1 trip) (thread dope-1 can) (weight indicator) (4 1/2" casing slips) (4 1/2" elevator) (2 7/8" stripping rubber) (3 1/2"x2 7/8" sub) (swab tank) (3 1/2" Reg. x 3 1/2" IF bit sub) (6 1/2" bit) (3-4 3/4" drill collars) (safety clamps) (premix pit) (250 bbl mud tank) (circulating head)



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DATE DEC. 24, 99-JAN. 8, 2000

COMPANY CRYSTAL RIVER OIL & GAS

LEASE MILES B-3

DECEMBER 29, 1999

To location, waited on Water truck. Water truck on location, pumped 80 bbls fresh water in premix pit. Rigged up Water truck to back side of well and began to circulate. Took 35 bbls to get circulation and pumped saltwater into Water truck. Put line back to big pit. \*9:00am Began to drill, washdown and ream well. Tagged bottom @ 3325' and washed down to 3520'. Mixed new premix pit of 15 sks gel and 2 sks soda ash. Drill down to 3535' and circulated for 30 minutes. Laid down 1 joint with power sub and pulled 4 joints 2 7/8" tubing. Closed well in and shut down for the day.

(unit-10 1/2 hours) (foreman-2 men-11 1/2 hours each) (pickup-1 hour) (thread dope-1 can) (weight indicator) (3 1/2" Reg. x 3 1/2 IF sub) (2 7/8" EUE x 3 1/2" IF sub) (premix pit) (250 bbl mud tank) (swab tank) (triplex pump-10 1/2 hours) (hydraulic power sub-10 hours) (6 1/8" bit) (3-4 3/4" drill collars) (safety clamps)

DECEMBER 30, 1999

To location, checked pressures and had 0#. Change stripping rubber and installed new one. Ran 4 joints tubing and 1 joint with power sub. Had no fill up. \*8:30am Began to drill. Drilled 1' every 30 minutes, total of 45'. Had problems with stripping rubber due to bad tubing. Had to change stripping rubber @ 1:30pm and continued to drill. Began to loose mud, got mud from premix pit. Got down to 3560', circulated for 15 minutes and laid down power sub with 1 joint and pulled 5 joints. Closed well in and shut down for the day.

(unit-10 1/2 hours) (foreman-2 men-11 1/2 hours each) (pickup-1 hour) (weight indicator) (3 1/2" Reg. x 3 1/2" IF sub) (2 7/8" EUE x 3 1/2" IF sub) (premix pit) (250 bbl mud tank) (swab tank) (triplex pump-10 1/2 hours) (hydraulic power sub-10 1/2 hours) (6 1/8" bit) (3-4 3/4" drill collars) (safety clamps) (Hercules circulating head) (2-stripper rubbers)

PRATT WELL SERVICE, INC.  
BY PAM CRUTCHFIELD-5

INVOICE 1

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DATE DEC. 24, 99-JAN. 8, 2000

COMPANY CRYSTAL RIVER OIL & GAS LEASE MILES B-3

DECEMBER 31, 1999

To location, ran 5 joints 2 7/8" tubing and 1 joint tubing with power sub. Began to pump and drill. Drilled down to 3575' and T.D. Circulated for 30 minutes and pumped new mud to bottom. Rigged down power sub with 1 joint. Tripped out 104 joints 2 7/8" tubing, 3-4" drill collars, change over sub and 6 1/8" bit. Laid down collars. Rigged up 4 1/2" equipment and got ready for 4 1/2" liner. Tripped in 10 joints 4 1/2" tubing and set casing on 4 1/2" elevator. Rigged up 2 3/8" equipment. Ran 10 joints 2 3/8" tubing inside casing with bumper sub and back off tool. Rigged down 2 3/8" equipment. Rigged up 2 7/8" equipment. Tripped in 100 joints 2 7/8" tubing, tagged bottom and spaced line. Rigged up Cement truck, cemented liner, rigged down Cement truck and backed off casing. Tripped out 15 joints 2 7/8" tubing. Closed well in and shut down for the day.

(unit-11 hours)(foreman-2 men-12 hours each)(pickup-1 hour)(power tongs-1 trips)(thread dope-1 can)(weight indicator)(4 1/2" casing slips)(4 1/2" elevator)(premix pit)(250 bbl mud tank)(4 1/2" tong insert)(safety clamps)(swab tank)(triplex pump-3 hours)(hydraulic power sub-3 hours)(rotary bit sub)(6 1/8" bit)(3-4 3/4" drill collars)

JANUARY 3, 2000

To location, tripped in 5 joints tubing and tagged cement. Tripped out 104 joints 2 7/8" tubing, change over sub, 10 joints 2 3/8" tubing, bumper sub and back off tool. Tripped in 3 7/8" bit, change over sub, 10 joints 2 3/8" tubing, change over sub to 2 7/8" and 104 joints 2 7/8" tubing. Rigged up weight indicator and hydraulic power sub with 1 joint. Laid down 10 joints tubing to be picked up with power sub. Rigged up pump and pump line. Drilled through bridge plug and all the way to bottom. Rigged down power sub, tagged bottom and laid down 2 joints tubing. Closed well in and shut down for the day.

(unit-9 hours)(foreman-2 men-10 hours each)(pickup-1 hour)(power tongs-2 trips)(thread dope-1 can)(weight indicator)(250 bbl mud tank)(new 2 7/8" stripper rubber)(triplex pump-4 hours)(hydraulic power sub-3 hours)(2 3/8" EUE x 2 3/8" Reg. sub)(3 7/8" bit)

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DATE DEC. 24, 99-JAN. 8, 2000

COMPANY CRYSTAL RIVER OIL & GAS LEASE MILES B-3

JANUARY 4, 2000

To location, checked pressures. Top joint had ice in it, laid it down. Ran 3 joints 2 7/8" tubing and tagged bottom. Rigged up pump line and pump. Began to circulate 160 bbls saltwater. Drained fluid from pump and lines. Removed weight indicator. Tripped out 104 joints 2 7/8" tubing, change over sub, 10 joints 2 3/8" tubing, bit sub and 3 7/8" tubing. Rigged up Log Tech, @ 2:30pm Logged well and perforated @ 3510-14', 3517-26' and 3538-50'. Closed well in and shut down for the day.

(unit-10 1/2 hours) (foreman-2 men-11 1/2 hours each) (pickup-1 hour) (power tongs-1 trip) (head adapter) (mastergate) (250 bbl mud tank) (swab tank) (rotary bit sub) (3 7/8" bit)

JANUARY 5, 2000

To location, tripped in bridge plug, over shot, 4 1/2" Model R packer, 10 joints 2 3/8" tubing and 104 joints 2 7/8" tubing. Tagged bottom and measured up to perforations. Set bridge plug. Pulled 2 joints tubing. Ran 20' of 2 7/8" sub. Set packer. Rigged up Acid truck, acidized well and rigged down Acid truck. Swabbed well, fluid 500' from surface, got fluid down to 1200' and recovered total of 20 bbls fluid. Acid truck pumped 500 gallons more acid down well. Tried to unseat packer, no luck. Tripped out tubing, packer and over shot. Closed well in and shut down for the day.

(unit-10 hours) (foreman-2 men-11 hours each) (pickup-1 hour) (power tongs-2 trips) (head adapter) (thread dope-1 can) (HOS rubbers-2) (swab cups-4) (swab tank)

JANUARY 6, 2000

To location, checked pressures, had vacuum on casing. Removed head adapter. Picked up 1 joint tubing, packer and overshot. Took off 4 1/2" packer and replaced with new 4 1/2" Model R packer. Tripped in over shot, 4 1/2" packer, 10 joints 2 3/8" tubing, 2 7/8" seating nipple and 104 joints 2 7/8" tubing. Got on bridge plug, pulled 1 joint tubing and set bridge plug. Pulled 1 joint tubing, spotted acid and acidized zone. Rigged down Acid truck. Swabbed well, fluid 2700' from surface and recovered 25 bbls fluid. Picked up 2 joints tubing, unseated packer and bridge plug. Pulled on tubing and bridge plug would not come through tight spot.

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LEASE MILES B-3

JANUARY 6, 2000-(continued from previous page)

Worked tubing trying to pull bridge plug, no luck. Set bridge plug. Tripped out tubing, Model R packer and over shot. Took packer off. Closed well in and shut down for the day.

(unit-10 1/2 hours) (foreman-2 men-11 1/2 hours each) (pickup-1 hour) (power tongs-2 trips) (thread dope-1 can) (HOS rubber) (swab cups -2) (swab tank)

JANUARY 7, 2000

To location, checked pressures and well was on vacuum. Tripped in over shot, 10 joints 2 3/8" tubing and 103 joints 2 7/8" tubing. Got on bridge plug, unseated plug and tried to get it out of 4 1/2" liner, no luck. Plug would go down but not up. Set bridge plug 3' off bottom. Tripped out 103 joints 2 7/8" tubing, 10 joints 2 3/8" tubing and over shot. Tripped in 10 joints 2 3/8" tubing, 2 3/8"x2 7/8" swedge, 1-2'x2 7/8" sub, seating nipple and 103 joints 2 7/8" tubing. Spaced tubing and packed well. Installed flow "T" and valve. Closed well in and shut down for the day.

(unit-10 1/2 hours) (foreman-2 men-11 1/2 hours each) (pickup-1 hour) (power tongs-3 trips) (thread dope-1 can) (weight indicator)

JANUARY 8, 2000

To location, checked pressures, had vacuum on tubing. Tripped in 1" strainer, 2 1/2"x2"x12' BHD PR pump, 4-7/8" rods, 124-3/4" rods, 2-4'x 3/4" subs and 16' polish rod. Spaced pump, longstroked pump and pumped ok. Hung well on. Rigged down and moved off location.

(unit-5 1/2 hours) (foreman-2 men-6 1/2 hours each) (pickup-1/2 hour)

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COMPANY CRYSTAL RIVER OIL & GAS

LEASE MILES B-3

DESCRIPTION	HRS/QTY	PER EACH	AMOUNT
#27 Unit (SD)	109.00	47.00	5,123.00
Foreman	120.50	23.50	2,831.75
2 Crewman	241.00	21.50	5,181.50
Extra Man	46.00	21.50	989.00
1 Ton Pickup	11.00	25.00	275.00
Power Tongs	13.00	50.00	650.00
Head Adapter	1.00	28.00	28.00
Triplex Pump-First Day	1.00	336.00	336.00
5"x8" Triplex Pump 120bbl.	17.50	38.00	665.00
Power Sub-First Day	1.00	256.00	256.00
Power Sub	16.50	32.00	528.00
#2 DS Swab Tank	1.00	150.00	150.00
Thread Dope	7.00	26.00	182.00
Swab Cup 2 3/8"	6.00	18.00	108.00
HOS Rubber	3.00	11.10	33.30
Stripping Tool	1.00	40.00	40.00
Weight Indicator	1.00	40.00	40.00
4 1/2" Slips-3 Day Min.	1.00	80.00	80.00
4 1/2" Casing Elevators-3 Day Min.	1.00	80.00	80.00
Stripper Rubber	4.00	199.00	796.00
4 3/4" Drill Collar-First Day	3.00	48.00	144.00
4 3/4" Drill Collar-Each Add'l Day	9.00	24.00	216.00
Premix Pit	5.00	150.00	750.00
120bbl. Mud Tank	1.00	150.00	150.00
Safety Clamps	1.00	50.00	50.00
6 1/8" Bit-New	1.00	608.35	608.35
3 7/8" Bit-Used	1.00	75.00	75.00
3 1/2" Reg. X 3 1/2" IF Bit Sub	1.00	60.00	60.00
2 7/8" EUE X 3 1/2" IF Bit Sub	1.00	50.00	50.00

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LEASE MILES B-3

Hercules Circulating Head	1.00	80.00	80.00
4 1/2" Inserts	1.00	72.00	72.00
KS STATE TAX--4.9%		1,010.77	SUBTOTAL 20,627.90
PR COUNTY TAX--1%		206.28	TAX 1,217.05
NON TAXABLE ITEMS BELOW			TOTAL 21,844.95
10% Discount as per Agreement			-1,166.73
			TOTAL 20,678.22

TERMS 30 DAYS NET-NO DISCOUNT-PAST DUE ACCOUNTS WILL BE CHARGED A FINANCE CHARGE AT THE RATE OF 1 1/2% PER MONTH AFTER 30 DAYS FROM INVOICE DATE. THIS IS AN ANNUAL RATE OF 18%.

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COMPANY CRYSTAL RIVER OIL & GAS LEASE MILES B-3

MATERIAL TAKEN OUT	MATERIAL INSTALLED
--------------------	--------------------

PR  
16'  
ROD SUBS  
2-4'X3/4"  
1-6'X3/4"  
RODS  
75-3/4"

PR  
16'  
ROD SUBS  
2-4'X3/4"  
RODS  
124-3/4"  
4-7/8"

SUB ON TOP OF PUMP

SUB ON TOP OF PUMP

PUMP TYPE

PUMP TYPE  
2 1/2"X2"X12' BHD PR

STRAINER NIPPLE

STRAINER NIPPLE

GAS ANCHOR

1"  
GAS ANCHOR

TUBING SUBS

TUBING SUBS  
1-2'X2 7/8"

TUBING

TUBING  
103 JOINTS 2 7/8"

SEATING NIPPLE

10 JOINTS 2 3/8"

YES

SEATING NIPPLE

MUD ANCHOR

YES  
MUD ANCHOR

15'

PACKER TYPE

PACKER TYPE

MISC. INFORMATION

MISC. INFORMATION  
2 3/8"X2 7/8" SWEDGE

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