

FORM MUST BE TYPED

CONFIDENTIAL

SIDE ONE

ORIGINAL

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

RELEASED

Operator: License # 05050

Name: Hummon Corporation SEP 16 1998

Address 950 North Tyler

FROM CONFIDENTIAL

City/State/Zip Wichita, Kansas 67212-3240

Purchaser: Kansas Gas Supply Corp.

Operator Contact Person: Joyce Cochran

Phone (316) 773-2300

Contractor: Name: Duke Drilling Co. Inc.

License: 5929

Wellsite Geologist: Byron Hummon

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD S10W Temp. Abd.
 Gas ENHR XYX SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

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

Operator: Jack Exploration, Inc.

Well Name: Brass #1-19

Comp. Date 10-30-89 Old Total Depth 5378'

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back 5220' PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

01-31-97 02-02-97 02-02-97

REENTRY Date of REENTRY Date Reached TD REENTRY Completion Date

API NO. 15- 007-22264-0001

County Barber County, Kansas

C - SW - NE - Sec. 19 Twp. 33S Rge. 15 XX^E

3300 Feet from S (circle one) Line of Section

1980 Feet from E (circle one) Line of Section

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

Lease Name Brass OWWO Well # 1-19

Field Name WC

Producing Formation Marmaton (Oswego)

Elevation: Ground 1710 KB 1721

Total Depth 5378' PBTD 5378'

Amount of Surface Pipe Set and Cemented at 325' 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 REENTRY JK 3-13-98
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name KCC

Lease Name _____ License No. _____

Quarter 1 Sec. 19 Twp. 33S Rng. 15 E/W

County Barber Docket No. _____

RECEIVED
KANSAS CORP COMM
MAY 15 1998
MAY 20 1998

CONFIDENTIAL

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.

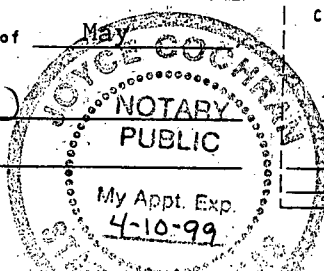
Signature Kent Roberts

Title Lease Operations Manager Date 5-19-97

Subscribed and sworn to before me this 19th day of May 19 97.

Notary Public Joyce Cochran

Date Commission Expires 4-10-99



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)

Hummon Corporation
Operator Name

SIDE TWO
Lease Name **Brass OWWO** Well # **1-19**

Sec. **19** Twp. **33S** Rgo. **15**
 East
 West

County **Barber 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:
 Neutron-Density

Log	Formation (Top), Depth and Datum	Sample
Name	Top	Datum
Lansing	4150	-2429
Mississippi	4757	-3036
Viola	4998	-3277
Simpson Sand	5169	-3448
Arbuckle	5238	-3517

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface			3.22	325'			
Production	7-7/8"	5-1/2"	5.14#	5262'	60/40 Poz 50/50 ASC	150 50	17lb KOL-SEAL 0.75% CD-31

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
4	4699-4704	1000 gal 15% Fe	

TUBING RECORD Size **2 3/8"** Set At **4674** Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. **SIGW** Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil Bbls. Gas Mcf Water Bbls. Gas-Oil Ratio Gravity
COF 3077

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 **4699-4704'**

CONFIDENTIAL

ORIGINAL

RELEASED

KCC

SEP 16 1998

MAY 15

FROM CONFIDENTIAL
CONFIDENTIAL

ALLIED
CEMENTING CO., INC.

CEMENTING LOG

STAGE NO.

Date 2-2-97 District med lodge Ticket No. 6609
 Company Hummen Corp. Rig Duke #5
 Lease BRASS Well No. 1-19
 County Barber State KS.
 Location Dear Head, 3s-4/4w- Field 19-325-15w
2s to location

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 5/2 Type TESS Weight 14 Collar _____
Used

Burst Collaspe
4,270PSI 3,120PSI

Casing Depths: Top _____ Bottom _____

CEMENT DATA:
 Spacer Type: 20sxs. 50/50/4 + 7# Kol-Seal
 Amt. 20 Skys Yield 1.38 ft³/sk Density 13.7 PPG

LEAD: Pump Time _____ hrs. Type 60/40/2 + 5#
Kol-Seal, 10% SALT - 75% CD-31 Excess _____
 Amt. 150 Skys Yield 1.38 ft³/sk Density 14.3 PPG

TAIL: Pump Time _____ hrs. Type CLASS A
Asc + 5# Kol-Seal Excess _____
 Amt. 50 Skys Yield 1.57 ft³/sk Density 14.5 PPG

WATER: Lead 5.9 gals/sk Tail 7.23 gals/sk Total 34 Bbls.

Pump Trucks Used 233-302 Carl Bakling
 Bulk Equip. 242 John Kelley
256-252 Shane Winsor

Drill Pipe: Size 4 1/2 Weight 16.60 Collars x-hole
 Open Hole: Size 7 7/8 T.D. 5375 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 1.0244 Lin. ft./Bbl. 42.01
 Open Holes: Bbls/Lin. ft. 0.602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. 0.309 Lin. ft./Bbl. 32.4065
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type Reg. Guide shoe Depth 5251
 Float: Type AFD Insert Depth 5209.63
 Centralizers: Quantity 4 Plugs Top Roller Btm. _____
 Stage Collars _____
 Special Equip. 2 Baskets
 Disp. Fluid Type Fresh H₂O Amt. 127 1/2 Bbls. Weight 8.34 PPG
 Mud Type Chemical Weight 9.2 PPG

COMPANY REPRESENTATIVE Byron Hummen

CEMENTER Narry Dreiling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE (CASING)	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
5:40		<u>400</u>				<u>Pipe on Bottom - Circ. w/ Rig Pump</u>
<u>5:35</u>		<u>300</u>		<u>10</u>	<u>5</u>	<u>Pump H₂O Spacer</u>
<u>5:40</u>		<u>50</u>		<u>1</u>	<u>3</u>	<u>mixt Pump 5sxs. 50/50 - Rathole</u>
<u>5:42</u>		<u>300</u>		<u>5</u>	<u>5</u>	<u>Cement 20sxs. 50/50/4 + 7# Kol-Seal</u>
						<u>150sxs. 60/40/2 + 10% SALT - 5# Kol-Seal</u>
		<u>300</u>		<u>36</u>	<u>5 1/2</u>	<u>+ 75% CD-31</u>
<u>5:50</u>		<u>300</u>		<u>14</u>	<u>5 1/2</u>	<u>Cement 50sxs. Asc + 5# Kol-Seal</u>
						<u>Cement In. Stop Pumps.</u>
<u>5:53</u>		<u>50</u>		<u>8</u>	<u>4</u>	<u>Wash out Pump Lines</u>
						<u>Release Plug</u>
<u>5:55</u>		<u>300</u>		<u>20</u>	<u>5 1/2</u>	<u>Start Fresh H₂O Displacement</u>
		<u>300</u>		<u>50</u>	<u>5 1/4</u>	<u>Steady Rate + PST</u>
		<u>300</u>		<u>72</u>	<u>5 1/2</u>	<u>Scavenger turn shoe</u>
		<u>300</u>		<u>77</u>	<u>5</u>	<u>Lead turn shoe</u>
		<u>350</u>		<u>84</u>	<u>5</u>	<u>PST lift</u>
		<u>550</u>		<u>113</u>	<u>5</u>	<u>Tail Turn shoe</u>
		<u>600</u>		<u>119</u>	<u>4</u>	<u>Slow Rate</u>
		<u>900</u>		<u>120</u>	<u>4</u>	<u>Steady PST Increase</u>
		<u>1000</u>		<u>123</u>	<u>3</u>	<u>Decrease Rate</u>
		<u>1500</u>		<u>127 1/2</u>	<u>3</u>	<u>Bump Plug</u>
						<u>Release PST</u>
						<u>Float Held</u>

RECEIVED
1997 MAY 20 P 12:33
KANSAS COMP. CONM

FINAL DISP. PRESS: 1000 PSI BUMP PLUG TO 1500 PSI BLEEDBACK 1/4 BBLs.

THANK YOU

ALLIED CEMENTING CO., INC. 6609

CONFIDENTIAL

ORIGINAL

SERVICE POINT:

med ledge, ks

REMIT TO: P.O. BOX 31
RUSSELL, KANSAS 67665

DATE <u>2-2-97</u>	SEC. <u>19</u>	TWP. <u>33S</u>	RANGE <u>15W</u>	CALLED OUT <u>8:00 A.M.</u>	ON LOCATION <u>12:30 P.M.</u>	JOB START <u>5:40 P.M.</u>	JOB FINISH <u>6:30 P.M.</u>
LEASE <u>BRASS</u>		WELL # <u>1-19</u>	LOCATION <u>Dear Head 3 st to T-10DD 4/4w-</u>		COUNTY <u>Barber</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one) NEW

CONTRACTOR Duke #5 OWNER Humman Corp.
TYPE OF JOB Prod. CSG. CEMENT

HOLE SIZE 7 7/8 T.D. 5375
CASING SIZE 5/2 x 14" DEPTH 5251
TUBING SIZE _____ DEPTH _____
DRILL PIPE 4 1/2 x hole DEPTH 5375
TOOL _____ DEPTH _____
PRES. MAX 1500 MINIMUM 350
MEAS. LINE _____ SHOE JOINT 41.37
CEMENT LEFT IN CSG. _____
PERFS. _____

AMOUNT ORDERED 25x50 50/50/4 + 7 Kd-Seal
150x50 60/40/2 + 10% SALT 5" Kd-Seal
1.75% CD-31 50x50 ASCT 5" Kd-Seal

COMMON _____ @ _____
POZMIX _____ @ _____
GEL _____ @ _____
CHLORIDE _____ @ _____
_____ @ _____
RELEASED
_____ @ _____
SEP 1 @ 1998
_____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Larry Dreding
#233-302 HELPER Carl Balding
BULK TRUCK
#242 DRIVER John Kelley
BULK TRUCK
#256-252 DRIVER Shane Winsor

HANDLING FROM CONFIDENTIAL
MILEAGE _____

TOTAL _____

REMARKS:

Pump 10 Bbls Fresh H₂O spacer mix + Pump
50x50 50/50/4 + 7" Kd seal Rathole Cement
20x50 50/50/4 150x50 60/40/2 + 10% SALT H#5
Kd-Seal 50x50 ASCT 5" Kd-Seal Cement
In wash out Pump Lines Release Plug
Displace Plug w/127 1/2 Bbls Fresh H₂O
Bump Plug Release PST
Float Held

SERVICE

DEPTH OF JOB _____ 5251
PUMP TRUCK CHARGE _____
EXTRA FOOTAGE _____ @ _____
MILEAGE _____ @ _____
PLUG Rubber 5/2 @ _____
_____ @ _____
_____ @ _____

CHARGE TO: Humman Corp.
STREET _____
CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

5/2
Reg Guide Shoe @ _____
1-AED Insert @ _____
2-Baskets @ _____
4-Centerizers @ _____
_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE [Signature]

TAX _____
TOTAL CHARGE _____
DISCOUNT _____ IF PAID IN 30 DAYS

