

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

150 EAST

API NO. 15-051-249740000

County ELLIS

NW-NW - SW - Sec. 6 Twp. 11 Rge. 20 X E/W

Operator: License # 5259

2310 Feet from SN (circle one) Line of Section

Name: MAI OIL OPERATIONS, INC.

4800 Feet from EW (circle one) Line of Section

Address P. O. BOX 33

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

City/State/Zip RUSSELL, KS. 67665

Lease Name WHISMAN Well # 1

Purchaser: NCRA

Field Name MENDOTA

Operator Contact Person: ALLEN BANGERT

Producing Formation ARBUCKLE

Phone (785) 483 2169

Elevation: Ground 2049 KB 2054

Contractor: Name: SHIELDS DRILLING CO.

Total Depth 3674 PBDT 3670

License: 5184

Amount of Surface Pipe Set and Cemented at 224 Feet

Wellsite Geologist: DAVE SHUMAKER

Multiple Stage Cementing Collar Used? X Yes      No

Designate Type of Completion

X New Well      Re-Entry      Workover

If yes, show depth set 1482 Feet

X Oil      SWD      SLOW      Temp. Abd.

If Alternate II completion, cement circulated from 1482

     Gas      ENHR      SIGW       
     Dry      Other (Core, WSW, Expl., Cathodic, etc)

feet depth to SURFACE w/ 175 sx cmt.

If Workover:

Drilling Fluid Management Plan AH-2, 4-27-98 U.C.  
(Data must be collected from the Reserve Pit)

Operator:     

Chloride content 69000 ppm Fluid volume 375 bbls

Well Name:     

Dewatering method used HAULED TO DISPOSAL

Comp. Date      Old Total Depth     

Location of fluid disposal if hauled offsite:     

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

Operator Name MAI OIL OPERATIONS, INC.

7-21-97 7-27-97 7-27-97  
Spud Date Date Reached TD Completion Date

Lease Name RICHARDS License No. 5259

NE Quarter Sec. 6 Twp. 11 S Rng. 20 E/W

County ELLIS Docket No. D-263,924

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 Allen Bangert

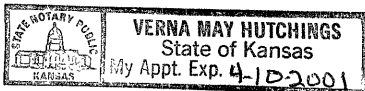
Title PROD SUPT Date 12-2-97

Subscribed and sworn to before me this 2nd day of December, 19 97.

Notary Public Verna May Hutchings

Date Commission Expires April 10, 2001

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



12-4-1997

SIDE TWO

Operator Name MAI OIL OPERATIONS, INC.

Lease Name WHISMAN

Well # 1

Sec. 6 Twp. 11 Rge. 20

East  
 West

County ELLIS

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:

GAMMA RAY-NEUTRON

Log Formation (Top), Depth and Datums  Sample

Name	Top	Datum
ANHYDRITE	1489	565
TOPEKA	3086	-1032
HEEBNER	3279	-1243
TORONTO	3319	-1265
LKC	3336	-1282
BKC	3560	-1506
SIMPSON	3644	-1590
ARBUCKLE	3654	-1600

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	12 1/4"	8 5/8"	20#	224	60-40 POZ 2% GEL 3% CC	200	
PRODUCTION	7 7/8"	5 1/2"	14#	3672	EA-2	150	

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	3670	60-40 POZ	50	
<input type="checkbox"/> Plug Back TD	3674			
<input checked="" 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	3656-60'	

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
	2 7/8"	3667'			
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
10-31-97					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10		0		

Disposition of Gas: **METHOD OF COMPLETION**

Production Interval

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

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify) \_\_\_\_\_

3656-60'



# ORIGINAL

15-051-24974-00-00

**JOB SUMMARY** 4239-1

REGION <b>North America</b>	NWA/COUNTRY <b>MidCont USA</b>	TICKET # <b>196737</b>	TICKET DATE <b>10-31-97</b>
MBU ID / EMP # <b>HAC503 43222</b>	EMPLOYEE NAME <b>John Barker</b>	BDA / STATE <b>MidCont Ks</b>	COUNTY <b>Ellis</b>
LOCATION <b>Haystack</b>	COMPANY <b>Major Oil Operations</b>	PSL DEPARTMENT <b>Tools Cont</b>	CUSTOMER REP / PHONE <b>A</b>
TICKET AMOUNT	WELL TYPE <b>01</b>	API / UWI #	JOB PURPOSE CODE <b>1950095</b>
WELL LOCATION <b>Wichita S Palca, Ks</b>	DEPARTMENT <b>5001 &amp; 5002</b>	LEASE / WELL # <b>Whisman #1</b>	
SEC / TWP / RNG <b>6-11-20W</b>			

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
J Barker 43222							
M Karlin 91511							
D Fulk 50763							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
41326							
53557							
51252-74103							

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type **L-RB** Set At **3050'**  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth \_\_\_\_\_

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
10-31-95		10-31-95	10-31-95	10-31-95
09:00		09:30	10:30	17:36

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other		

**WELL DATA**

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing <b>W</b>		5 1/2"	0	0	
Liner					
Liner					
Tbg/D.P. <b>W</b>		2 3/8"	0	1:15	
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.	ln
NE Agent	Gal.	ln
Fluid Loss	Gal/Lb	ln
Gelling Agent	Gal/Lb	ln
Fric. Red.	Gal/Lb	ln
Breaker	Gal/Lb	ln
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other		
Other		
Other		

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

**HYDRAULIC HORSEPOWER**  
 ORDERED Avail. Used  
**AVERAGE RATES IN BPM**  
 TREATED Disp. Overall  
**CEMENT LEFT IN PIPE**  
 FEET Reason

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	200	M&Cem-2	2000	3% Flocc	322	11.1
	25	M&Cem-2	250	3% Flocc	197	13.2

Circulating Breakdown	Displacement	Preflush: Gal - BBI	Type
Average	Maximum	Load & Bkdn: Gal - BBI	Pad: BBI - Gal
Shut In: Instant	Frac Gradient	Treatment Gal - BBI	Disp: BBI - Gal
	5 Min _____ 15 Min _____	Cement Slurr Gal - BBI	
		Total Volume Gal - BBI	

Frac Ring #1 \_\_\_\_\_ Frac Ring #2 \_\_\_\_\_ Frac Ring #3 \_\_\_\_\_ Frac Ring #4 \_\_\_\_\_  
 THE INFORMATION STATED HEREIN IS CORRECT  
 CUSTOMER'S REPRESENTATIVE SIGNATURE \_\_\_\_\_



15-051-24974-00.00

TICKET CONTINUATION

TICKET No. 196733

HALLIBURTON ENERGY SERVICES

Truck# (s)	3846-8206	CUSTOMER	Mal Operation	WELL	Whisman	8:08 AM	10/31/97	PAGE	2	OF	2
PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
504-280				30	Mid Con II	133	sk			\$13.53	2367.75
509-406				30	Calcium Chloride	4	sk			\$46.90	\$187.60
507-210				30	Flocele	84	lb.			\$1.90	\$159.60
ORIGINAL											
500-207				30	SERVICE CHARGE						
						CUBIC FEET	250			1.55	\$387.50
500-306				30	MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	TON MILES			
						22,410	30	336.146		1.18	\$396.65

No. B 660187

CONTRIBUTION TOTAL \$ 3499.10  
\$ 4,175.60



15-051-24974-00-00

JOB LOG 4239-5

REGION North America	NWA/COUNTRY MEXICO USA	BDA / STATE Ks	TICKET # 1147	TICKET DATE 10-21-11
MBU ID / EMP # HAC 50 49257	EMPLOYEE NAME John D. ...	PSL DEPARTMENT Tool	COUNTY Ell.	
LOCATION Haw	COMPANY M. ...	CUSTOMER REP / PHONE A		
TICKET AMOUNT	WELL TYPE 01	API / UWI #		
WELL LOCATION	DEPARTMENT 3001 1500	JOB PURPOSE CODE 195 479		
LEASE / WELL #	SEC / TWP / RNG 6-11-20			

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

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	08:00							Called Out
	09:30							On loc - Rig Bailing TO Spot + Set up Equip - Discuss Job - Safety Meeting
	10:45							Start 5 1/2" RBP - W/L in Hole on Sandline Set RBP @ 3050' - Loaded Hole w/ Water Trk (Lease w/)
	12:45							Start in Hole w/ 5 1/2" Port Collar Opening Tool on 2 1/8" Tbg Found Port Collar @ 1482'
	13:05					1000	1000	Pres up 1000# - OK - Open Port Collar
	13:40	2 1/2				250	250	Pump thru Port Collar
	14:10					375	375	Start Pump Cmt - Aid con 2 1/2" CC 2 1/8" Flocle Mixed 150sk @ 11.1' + 25sk @ 13.8'
	14:29					100	100	Finished Pump Cmt
	14:29					100	100	Start Displ
	14:32					456	456	Finish Displ - Close Port Collar - Cmt. Old Cmt. ✓
	14:34					1000	1000	Pres up - OK
	14:40					156		Start Rev out - Short way
	14:40					175		Hole Clean Wash up + Rack up Rig Pull opening Tool + Swab Hole Down
	17:15							Release RBP - PDH on Sandline
	17:30							Tools on Bank + Loaded

Job Complete  
Thank you  
John  
Miel + Dusty

# ALLIED CEMENTING CO., INC.

8161

Federal Tax I.D.# [REDACTED]

REMIT TO: PO BOX 31  
RUSSELL, KANSAS 67665

15-051-24974-00.00

SERVICE POINT: K

DATE <u>7-21-97</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>9:00pm</u>	JOB START <u>10:45pm</u>	JOB FINISH <u>11:00pm</u>
LEASE <u>Whisman</u> WELL # <u>1</u>		LOCATION <u>Ellis N to Coline 2 1/2 W</u>			COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)				<u>1/2 S. Entr</u>			

CONTRACTOR <u>Shields Dwy</u>	OWNER
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>227</u>
CASING SIZE <u>8 3/8</u>	DEPTH <u>224 20"</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>10-15'</u>	
PERFS. <u>3</u>	
DISPLACEMENT <u>13 1/4 bbl</u>	

**ORIGINAL**

CEMENT	AMOUNT ORDERED	<u>200 6 3/4 @ 39.00</u>	<u>2 9/16 gel</u>
COMMON	<u>120 @ 6.35</u>	<u>762.00</u>	
POZMIX	<u>80 @ 3.20</u>	<u>256.00</u>	
GEL	<u>4 @ 9.50</u>	<u>38.00</u>	
CHLORIDE	<u>6 @ 28.00</u>	<u>168.00</u>	
	@		
	@		
	@		
	@		
	@		
HANDLING	<u>105</u>	<u>210.00</u>	
MILEAGE <u>34m</u>	<u>04</u>	<u>272.00</u>	
TOTAL			<u>1706.00</u>

**EQUIPMENT**

PUMP TRUCK # <u>153</u>	CEMENTER <u>Mark</u>
	HELPER <u>Paul</u>
BULK TRUCK # <u>213</u>	DRIVER <u>Darin</u>
BULK TRUCK #	DRIVER

**REMARKS:**

Cement Circulated ✓

**SERVICE**

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>470.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>34m</u>	<u>272.00</u>
PLUG <u>8 3/8 wooden</u>	<u>45.00</u>
	@
	@
TOTAL <u>515.00</u>	

CHARGE TO: Main Oil Operations  
STREET PO. Box 33  
CITY Russell STATE Kan ZIP 67665

**FLOAT EQUIPMENT**

	@	
	@	
	@	
	@	
	@	

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or

TOTAL \_\_\_\_\_

15-051-24974-00-00



**HALLIBURTON ENERGY SERVICES**  
HAL-1906-P

CHARGE TO  
**MAI Operations**

ADDRESS  
**P.O. Box 33**

CITY, STATE, ZIP CODE  
**Russell KS 67665**

CUSTOMER COPY  
TICKET No. **197026-5**

PAGE 1 OF 2

SERVICE LOCATIONS <b>1. HAYS 25525</b>	WELL/PROJECT NO. <b>1</b>	LEASE <b>Whisman</b>	COUNTY/PARISH <b>Ellis</b>	STATE <b>Ks</b>	CITY/OFFSHORE LOCATION <b>Palco Ks</b>	DATE <b>7-27-97</b>	OWNER <b>SAME</b>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <b>Shields Drlg</b>	RIG NAME/NO	SHIPPED VIA <b>CT WELLSITE</b>	DELIVERED TO	ORDER NO
3.	WELL TYPE <b>01</b>	WELL CATEGORY <b>01</b>	JOB PURPOSE <b>035</b>	WELL PERMIT NO <b>APR 15-051-249740</b>	WELL LOCATION <b>8-8 1-w 1/2 S Palco Ks</b>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS <b>sec 6-113-20w</b>	<b>mendota field</b>				

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		U/M	U/M	PRICE		
000-117		1		30	MILEAGE	60	mi		3.20	192.00
001-016		1		30	Pump Service	3674	ft		1.811	1811.00
12A	825.205	1		30	Guide Shoe	1	EA	5 1/2 IN	121.00	121.00
24A	815.19251	1		30	Insert Float Valve	1	EA	5 1/2 IN	121.00	121.00
27	815.19313	1		30	Auto-fill tube	1	EA	5 1/2 IN	76.00	76.00
40	806.60022	1		30	Centralizers	7	EA	5 1/2 IN	67.00	469.00
320	806.71430	1		30	Cement Baskets	3	EA	5 1/2 IN	116.00	348.00
66	806.72030	1		30	Fasgrip Clamp	1	EA	5 1/2 IN	12.30	12.30
73	813.0151	1		0	Port Collar	1	EA	5 1/2 IN	1450.00	1450.00
018-303		1		30	Cl-a-Fix #	2	GPI		30.50	61.00
018-315		1		30	Mud Flush	500	GPI		.75	375.00
020-016		1		30	SW TOP PLUG	1	EA	5 1/2 IN		66.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X *Gail Palmberg*

DATE SIGNED: \_\_\_\_\_ TIME SIGNED: \_\_\_\_\_

do not require IFC (Instrument Protection)  Not Offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		<b>SURVEY</b>		AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL <b>51023</b>
TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?					
TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
TUBING SIZE	TUBING PRESSURE	WELL DEPTH	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
TREE CONNECTION	TYPE VALVE		ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				
			<input checked="" type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				
						SUB-TOTAL <b>8202.60</b>	

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) \_\_\_\_\_ CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) *Gail Palmberg* EMP # **41489** HALLIBURTON APPROVAL \_\_\_\_\_

HALLIBURTON ENERGY SERVICES

FORM 1911 R-10

CUSTOMER  
1101 Oper

WELL  
Whisper #1

DATE  
7-27-97

PAGE OF  
2 2

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
504-319		1		30	Standard cm7	150				10.83	1624.5
507-968		1		30	Sol +	1350				1.17	229.5
507-153		1		30	Cf 1-3	71				5.18	419.5
507-211		1		30	510C-12	38				<del>4.18</del>	72.0
509-077		1		30	Cal Seal	7				28.00	196.0
500-207		1		30	SERVICE CHARGE					1.55	28.2
500-306		1		30						1.19	28.7
					TOTAL WEIGHT	16,259		LOADED MILES		30	
					CUBIC FEET	192		TON MILES		273.995	

ORIGINAL

No. B 339249

CONTINUATION TOTAL

3100.34





**JOB SUMMARY** 4239-1

REGION North America	NWA/COUNTRY MIDCONTINENT	TICKET # 197026	TICKET DATE 7-27-41
MBU ID / EMP # 41489	EMPLOYEE NAME GAIL PALMBERG	BDA / STATE KS	COUNTY ELLIS
LOCATION HAYS 25525	COMPANY Moi Operations	PSL DEPARTMENT 5001	
TICKET AMOUNT 8137	WELL TYPE 01	CUSTOMER REF / PHONE Allen Barger (785) 483-8259	
WELL LOCATION 8-S-1-W-6-S Palco KS	DEPARTMENT 5005	API / UWI # API 15-051-249740-00-0	
LEASE / WELL # Whisman #1	SEC / TWP / RNG 6-11s-20W	JOB PURPOSE CODE 035	

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
G Palmberg 41489	B Chatham 42804		
E Reynolds 47558			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
41258	72						
53557	72						
52418	72						

Form Name \_\_\_\_\_ Type: \_\_\_\_\_  
 Form Thickness \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
 Packer Type \_\_\_\_\_ Set At \_\_\_\_\_  
 Bottom Hole Temp. \_\_\_\_\_ Pressure \_\_\_\_\_  
 Misc. Data \_\_\_\_\_ Total Depth **3674**

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
7-27	1230	7-27	7-27	7-28
			2200	0045

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe w/ Pickup	1	HES
Guide Shoe Reg 5 1/2	1	HES
Centralizers S-4 5 1/2 x 2 3/8	7	HES
Bottom Plug		
Top Plug SW 5 1/2	1	HES
Head		
Packer Clamp	1	HES
Other Port Collar	1	

**WELL DATA**

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing			5 1/2	0	3672	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole			7 7/8	3672	3674	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	
Perpac Balls	Qty.	
Other		
Other		
Other		
Other		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
7-27		7-27		CEMENT 5 1/2" Prod Csg
				PORT COLLAR @ 1481
<b>TOTAL</b>		<b>TOTAL</b>		

**HYDRAULIC HORSEPOWER**  
 ORDERED \_\_\_\_\_ Avail. \_\_\_\_\_ Used \_\_\_\_\_  
**AVERAGE RATES IN BPM**  
 TREATED \_\_\_\_\_ Disp. \_\_\_\_\_ Overall \_\_\_\_\_  
**CEMENT LEFT IN PIPE**  
 FEET **23** Reason **SHOE JOINT**

**CEMENT DATA**

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	150	EA-2	B	570 CAL scal 1870 Salt 1270 CFR-3 1/4" Flocculsk	136	15.4

Circulating Breakdown \_\_\_\_\_ Displacement Maximum \_\_\_\_\_ Preflush: \_\_\_\_\_  
 Average \_\_\_\_\_ Frac Gradient \_\_\_\_\_ Load & Bkdn: \_\_\_\_\_  
 Shut in: Instant \_\_\_\_\_ 5 Min \_\_\_\_\_ 15 Min \_\_\_\_\_ Treatment \_\_\_\_\_  
 Cement Slurr \_\_\_\_\_ Total Volume \_\_\_\_\_  
 Gal - BBI 20 Type 3% Cln Fix II  
 Gal - BBI 12 mud flush rad: BBI - Gal  
 Gal - BBI \_\_\_\_\_ Disp: BBI - 87  
 Gal - BBI 36  
 Gal - BBI 165



JOB LOG 4239-5

TICKET #	197026	TICKET DATE	7-27-91
BDA / STATE	Ks	COUNTY	Ellis
PSL DEPARTMENT	5001		
CUSTOMER REP / PHONE	Allen Banquet (785) 483-8257		
API / UWI #	API 15-051-249740-00-00		
JOB PURPOSE CODE	035		

REGION	North America	NWA/COUNTRY	MIDCONTRACT
MBU ID / EMP #	41497	EMPLOYEE NAME	Carl Palmberg
LOCATION	WAYS 25325	COMPANY	Mai Operations
TICKET AMOUNT	8137	WELL TYPE	01
WELL LOCATION	8-21-06-5 Palunks	DEPARTMENT	5005
LEASE / WELL #	Whisman #1	SEC / TWP / RNG	6-11s-20W

MENDOTA Field

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
G Palmberg 41497	B Chabhan 47809		
E Reynolds 47558			

ORIGINAL

CHART NO	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1230							Called out
	1600							On Location w/ Float Equipment
	1700							Rig Laying down P11 Pipe
								PTAR & BT ON Location
								Discuss Job
	1910							Set up Equipment
								START USED 5 1/2" 15.5"/ft csg
	2105							PORT COLLAR @ 1481
								DROP BALL FOR INSERT
								Csg on bottom
	2155							Rig up to circulate
						700		Ball through Insert
								Circulate
								Rig up to pump truck
	2255	4	20			250		Pump 2% C/ATIX WATER
	2300	4	12			250		Pump mud flush
								Plug Rat Hole w/ 15 sks cmt
								plug mouse Hole w/ 10 sks cmt
	2315	4				200		START Pumping: mixing cmt down casing
								125 sks EA-2 5% Calseal 18% Salt
								1/2% CFR-3 14" Flocale lab
	2325		34					Cement mixed
								Wash out pump-line
								Release Plug
								START Displacement
	2345		88 1/2			1100		Plug down
	2350							Release Pressure - Tagged @
								Float Held
								Wash up
								Rack up
								Job Completed
								Electrical STORM
								DID NOT RUN MEASURING
								LINE

Thank you

Carl Eldon & Ben

ORIGINAL

7001 N. Pearl, #300, LB 349  
Dallas, Texas 75201

15-051-24974-00-00

**GEOLOGICAL REPORT:**

Whisman No. 1  
100' E of NW-NW-SW  
6-11S-20W  
Ellis County, Kansas

**DRILLING CONTRACTOR:**

Shields Drilling Co., Inc. Rig No. 2.  
Russell, Kansas 67665

**DRILLING COMMENCED:**

July 21, 1997

**DRILLING COMPLETED:**

July 27, 1997

**CASING RECORD:**

8 5/8 set at 224' with 200 sx.  
5 1/2 set at 3672'.

**DRILLING TIME:**

By Geologist.  
1' intervals plotted and recorded from  
2900' to 3571' R.T.D.

**SAMPLES:**

10' intervals from 3050' to 3674'  
R.T.D.

**DRILL STEM TESTS:**

No drill stem tests were run on the  
Whisman No. 1.

**LOGS:**

No logs were run on the Whisman  
No. 1.

**ELEVATION:**

Kelly Bushing 2054'  
Ground Level 2049'  
Measurements from K.B.

RECEIVED  
KANSAS CORP CORM  
1997 DEC-4 P 1:15

15-051-24974-00.00

FORMATION TOPS  
(Sample Tops)

<u>FORMATION</u>	<u>DEPTH</u>	<u>MINUS DATUM</u>
*Anhydrite	1489	+565
*Base Anhydrite	1542	+512
Topeka	3086	-1032
Heebner	3279	-1243
Toronto	3319	-1265
Lansing-Kansas City	3336	-1282
Base-Kansas City	3560	-1506
Simpson	3644	-1590
Arbuckle	3654	-1600
Rotary Total Depth	3674	-1620
*Drillers Tops		

Lithology: Zones of Interest

Topeka 3086-Top  
3089-91

LS; White to light gray, poor crystalline porosity with no show. Fossiliferous.

3115-19

LS; White to light gray, fair crystalline and fossil porosity with no show.

3244-49

LS; Buff, poor crystalline to slightly granular porosity with a trace of stain. Slightly fossiliferous. No free oil or odor.

Heebner 3297 (-1243)

## Lithology: Page 2

Toronto 3319 (-1265)  
3319-21

LS; White, poor fine to medium crystalline porosity with a trace of stain. No free oil or odor.

Lansing-Kansas City 3336 (-1282)  
3336-39

LS; White, fair crystalline to granular porosity with a trace of stain. No free oil or odor.

3343-47

LS; White, crystalline and slightly oolitic porosity with a trace of stain. No free oil or odor.

3374-79

LS; White, fair crystalline and slightly oolitic and fossil porosity with rare spotty stain. No free oil or odor.

3419-23

LS; White, fair crystalline porosity with a trace of stain. Slightly chalky. No free oil or odor.

3428-35

LS; White, fossiliferous to poor oolitic porosity with a trace of stain. Chalky. No free oil or odor.

3495-98

LS; White to light gray, trace of stain in poor crystalline porosity. No free oil or odor.

3510-13

LS; White to buff, crystalline and fossil porosity with very spotty stain. Chalky. No free oil or odor.

3533-37

LS; White, fine crystalline and dense. Trace of poor chalky porosity. No free oil or odor.

Base-Kansas City 3560 (-1506)

Simpson 3644 (-1590)  
3644-53

Dol; Tan, sucrosic granular porosity with spotty stain. Show of free oil and fair odor.

Arbuckle 3654 (-1600)  
3654-62

Dol; White, buff, pink, fine to medium crystalline. Fair to poor porosity with scattered spotty to well saturated stain. Show of free oil and fair odor.

Lithology: Page 3

3662-71

Dol; White, buff, and pink, fair to poor medium crystalline porosity with light stain. Fair show of free oil and fair odor.

3672-74

Dol; White to buff, fair medium crystalline porosity, some good porosity with light stain. Show of free oil and fair to good odor.

Rotary Total Depth 3674 (-1620)