

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

API NO./15- 065-03239-0001 ORIGINAL

County Graham

SW-NE-SW Sec. 10 Twp. 10S Rge. 25 X (u)

Operator: License # 03353

1650 Feet from (SW) (circle one) Line of Section

Name: Citation Oil & Gas Corp.

3630 Feet from (EN) (circle one) Line of Section

Address 8223 Willow Place South

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

Suite 250

Lease Name Elrick Well # 7-2

City/State/Zip Houston, Texas 77070-5623

Field Name Elrick

Purchaser: NCRA

Injection Lansing Kansas City/Toronto

Operator Contact Person: Debra Harris

Elevation: Ground 2512' KB 2523'

Phone (281) 469-9664

Total Depth 4012' PBTD 3870'

Contractor: Name: Klima WELL SERVICE

Amount of Surface Pipe Set and Cemented at 158' Feet

License: 7023

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: _____

_____ show depth set _____ Feet

Designate Type of Completion
XXX New Well XXX Re-Entry XXX Workover

If Alternate II completion, cement circulated from _____

X Oil SWD SIOW
X Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

feet depth to _____ w/ _____ sx cmt.

If Workover/Re-Entry: old well info as follows:
EMPIRE DRILLING & NCRA

Drilling Fluid Management Plan REWORK JK 6-12-97
(Data must be collected from the Reserve Pit)

Operator: Citation Oil & Gas Corp.

Chloride content _____ ppm Fluid volume _____ bbls

Well Name: Dinkel #2-B

Dewatering method used _____

Comp. Date 12/27/57 Old Total Depth 4013'

Location of fluid disposal if hauled offsite: _____

 Deepening Re-perf. X Conv. to (Inj) SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
X Other (SWD or (Inj)) Docket No. E-14,576

Operator Name _____

Lease Name _____ License No. _____

4-7-97 Date of START Date Reached TD 5/20/97 Completion Date of WORKOVER

Quarter Sec. Twp. S Rng. E/W

County _____ Docket No. _____

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 Debra Harris

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)

Title Regulatory Analyst Date 6/2/97

Subscribed and sworn to before me this 2nd day of June 19 97

Notary Public Renee Harrell

Date Commission Expires 3-2-99



Operator Name Citation Oil & Gas Corp. Lease Name Elrick Well # 7-2

Sec. 10 Twp. 10S Rge. 25 East West

County Graham

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

List All E.Logs Run:

GR & Collar Locator 5/7/97

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 Per Additives
Surface	12-1/4"	8-5/8"		186'		150	
Production	7-7/8"	5-1/2"	14#	4012'		100	

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate		HLC	50	2% CaCl2 + 1/4#/sx Flocele
Protect Casing	1050'-252'	HLC	75	3% CaCl2
Plug Back TD				
Plug Off Zone	800'-847'	MidConII	100	1#/sx Flocele + 2% CaCl2

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
	(SEE SEPARATE COMPUTER-GENERATED ATTACHMENT) CIBP set @3893'	
	Drilled through CIBP's @3689'/3699'	Cmt'd down surf csg/prod csg annulus with 60 sx MidCon II (@ surface)
		Cmt'd tubing with 150 sx MidConII w/2% CaCl2 + 1/4# Flocele

TUBING RECORD

Size 2-7/8" Set At 3612'-74' Packer At 5 1/2" pkr shoe Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. assy @3612' Producing Method Flowing Pumping Gas Lift Other (Explain)

Began injection on 5/20/97 @1:00 PM

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	N/A			Injection 250 BWPD with 20 psi TP	

Disposition of Gas: N/A

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

Open Hole Perforations Dual Comp. Commingled Other (Specify) Injection thru perforations

Production Interval 3770' - 3862'

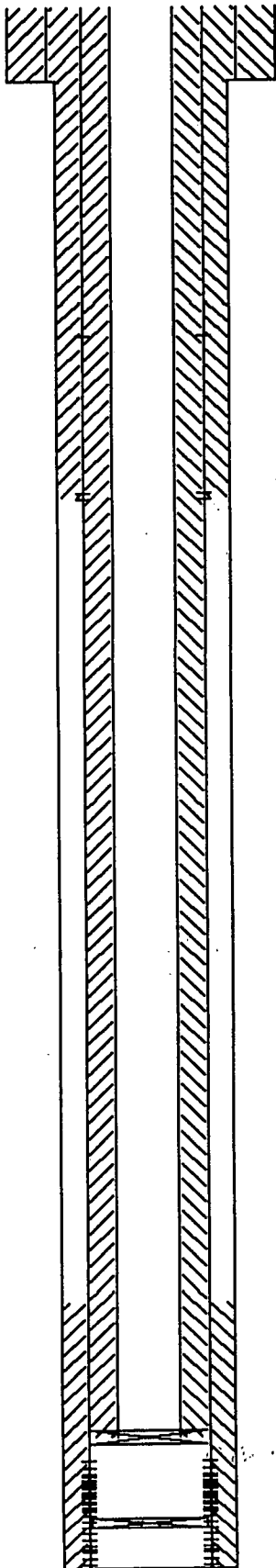
ORIGINAL

Lease: ELRICK
Well #: 7-2

API #: 15-065-03239-0001
Location: Sec 10 Twn 10S Rng 25W
County: GRAHAM
State: KS
Field: ELRICK
Operator: CITATION OIL & GAS

Spud Date: 12/10/1957
KB: 2525.5
TD: 4013

Comp Date: 12/27/1957
ELEV: 2519
PBD: 3893



Start End	Size Length	Description
0.0 186.0	12.250 186.0	Hole:
0.0 186.0		Cement: 150sx
0.0 186.0	8.625 186.0	Casing:
845.0 846.0		Perf: SQZ'D 04/09/97 100SX HOWCO MIDCONII
750.0 850.0	1.0 100.0	Cement: SQUEEZE
0.0 1000.0		Cement: 60SX MIDCONII
528.0 1250.0		Cement: SQUEEZED
1250.0 1252.0	722.0 2.0	Perf: SQZD 04/07/97 W/125SX HOWCO 'A'
<p>RECEIVED STATE CORPORATION COMMISSION JUN 9 1997 CONSERVATION DIVISION Wichita, Kansas</p>		
0.0 3674.0		Cement: 100SX MIDCONII+2*CC + 50SX MIDCONII+2*CC+1/4*FLOCELE
0.0 3674.0	2.875 3674.0	Casing: 6.5# J55 8R EUE IPC TUBING
3674.0 3677.0	5.500 3.0	Packer: HOWCO CEMENT SHOE PACKER
3770.0 3777.0		Perf: TORONTO
3777.0 3788.0	7.0	Perf: LKC
3788.0 3791.0	3.0	Perf: LKC
3812.0 3820.0	8.0	Perf: LKC
3827.0 3833.0	6.0	Perf: LKC
3856.0 3862.0	6.0	Perf: LKC
3893.0 3895.0	5.500 2.0	Plug: CIBP
3921.0 3924.0		Perf: LKC
3968.0 3969.0		Perf: LKC
3985.0 3991.0		Perf: LKC
3991.0 3331.0	6.0	Cement: 100sx
4012.0 0.0	681.0 5.500	Casing: 14#
4012.0 186.0	4012.0 7.875	Hole:
4013.0	3827.0	

5/15/97

JOB LOG 4239-5

REGION North America	NWA/COUNTRY Mid Cont	TICKET # 196456	TICKET DATE 4-7-97
MBU ID / EMP # 86101	EMPLOYEE NAME Allen F. Werth	BDA / STATE KS	COUNTY Graham
LOCATION 25525	COMPANY Citation Oil & Gas	PSL DEPARTMENT CMT	ORIGINAL
TICKET AMOUNT	WELL TYPE 07	CUSTOMER REP / PHONE Downy	
WELL LOCATION N.W. St. Peter Ks	DEPARTMENT CMT	API / UWI #	
LEASE / WELL # Eldrich 7-2	SEC / TWP / RNG	JOB PURPOSE CODE 060	

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
Allen F. Werth 86101	Eldrich 7-2		
Dave Ash E1609	Lenny Dierck		

CHART NO.	TIME	RATE (BPM)	VOLUME (BB)(GAL)	PUMPS		PRESS. (PSI)		JOB DESCRIPTION / REMARKS
				T	C	Tog	Csg	
1	0600							Called out on location w/ pt. Discuss safety, set up + plan job.
	0830		5					Load Hole w/ 5 BBLs water
	0920		6 1/2					spot 2 sk spud @ 1225 in 6 1/2 BBLs
	0945							Pull tbg. " 1149 @ 1300 "
	1015							LK wire line on location to Perf @ 1250
						500#		PSI on ANN @ 1050' OK.
						750#		PSI on Tbg go up to 750# PSI PSI on ANN comes up to 750# PSI No Blow on Braden Head.
	1030					0#		Release PSI + Pull PKR.
	1055							out of hole w/ PKR.
	1110							start tension PKR in hole.
						500#		PKR @ 1030 PSI on ANN
		44				750#		take in BATE tbg 44 BPM @ 750#
		2				1000#		increase rate 2 RPM @ 1000#
			20					Pump 20 BBLs
	1215							order cnt - 50 SKS HLC w/ 44# flocc 2% cc
								75 SKS std w/ 3% cc
	1230							Hot shot for PKR.
2								PKR @ 1030 - Perf @ 1250
						500#		PSI on ANN
						850#		start mix 50 SKS HLC w/ 44# flocc 2% cc
		3/4				250#		start mix 55 SKS std w/ 3% cc
		1/2				800#		FIN mix - washout Pump + Line.
	1545	1 1/4				200#		start Disp. PSI Builds
		1	2 1/2			500#		10 BPM @ 500# 2 1/2 BBLs out
		3/4	3			540#		3/4 BPM @ 540# 3 out
		1/2	5 1/2			625#		1/2 BPM @ 625# 5 1/2 out
			6 1/2			670#		6 1/2 BBLs out @ 650#
	1554							Stage cnt - wash up Equip.
	1604		7			650#	500#	PSI Back on sp. + move 1/2 BBL - 7 out total
	1620					800#		Bump sp. 7 1/2 out Falls back to 200# in 30 min
	1652					1000#		Bump sp. 7 3/4 out Falls back to 220# in 30 min
	1723					1000#		Bump sp. 1000 PSI holding
						500#		shut in well 500 PSI
	1800							Shut down For the Day

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 JUN 9 1997
 CONSERVATION DIVISION
 Wichita, Kansas



DATE: 4-8-97 PAGE NO: 2

JOB LOG HAL-2012-C

CUSTOMER: Citation Oil & Gas WELL NO.: #2-7 LEASE: Elrich JOB TYPE: Squeeze TICKET NO.: 1964567

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0930							Called out - Hot shot to switch out Bulk trucks -
	134							ORIGINAL on loc. w/ Bulk truck - LK in hole w/ Temp. tool - Tag Cmt. @ 1060' - wait on orders -
	1420							Sheet hater @ 845' - Hook up to Csg
	1530							Water on loc. -
	1533	1.7	2 1/2			425		Load & Take in. Rate down Csg.
	1535	2.0	84.0			450		2 BPM @ 450' - No blow on Graded Head
						450		Shut down - 24 bbl. pumped @ 2 BPM
						0		Press. to 0 in 1 min. - Co. Rep. Call in for orders - wait on orders & water
	1550							Run in hole w/ Pkr. - wait on water
	1655							Pkr. @ 710' - Hook up PT
	1705							Test Ann. - Head leaked - Tighten Head
	1710					500		Test Ann. - 500' - Holding
	1712	2.2	4.0			450		Take in. Rate -
	1714					450		Start mixing 50 sks mid-Cou for 11.8 gal.
	1718	2.2				375		9 bbl. out -
	1730	2.2	23.5			500		Finish mix 50 @ 11 1/2' - St. mix 50 sks @ 14.5 gal
	1732	2.0	13.0			600/30		Finish mixing Cmt. Close in Tubing - wash up Pump & Lines - Re-press. Ann
	1735	.7				400	500	St. diap - 400' @ 1/10 BPM
	1739					400/75		3 bbl. out - Stop - Bleed-off to 75' - 2 min
	1748					375/50		3 3/4 bbl. " - Stop - " " to 50' - 3 min
	1757					375/50		4 1/2 " " - Stop - " " to 50' - 3 min
								Close in Tubing wash up PT
	1807					400/100		5 bbl. out - Stop - Bleed-off to 30' + holding
	1817							5 1/2 " - Stop - Bleed-off to 25' - "
	1830							1/2 bbl. in - 700' - down to 450' in 3 min
	1845							Press @ 750' - Slow bleed - 200' in 10 min. (6 1/2 over)
	1910							6 1/2 in. - Press to 600' - slow bleed-off
	1912							Close in Tubing w/ 550' - Co. Rep. Requested visit to Reverse Out Ground Pkr.
								Rack up Complete - TTS
	1930							Job Completed Thank you Edwin, Dave, Leanny

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JUN 9 1997
CONSERVATION DIVISION
Wichita, Kansas



JOB SUMMARY 4239-1

TICKET #	196487	TICKET DATE	5-8-93
REGION	North America	BDA / STATE	KANSAS
NWA/COUNTRY	MED CENTER	COUNTY	GRAHAM
EMPLOYEE ID / EMP #	HAS101 89377	EMPLOYEE NAME	WAYNE WILSON
LOCATION	HAYS, KS	P&L DEPARTMENT	CEMNT
TICKET AMOUNT	8377.38	CUSTOMER REP / PHONE	DOANNE SILLMAN
WELL LOCATION	ST PETER, KS	API / UWI #	ORIGINAL
LEASE / WELL #	ELKIN 7-2	JOB PURPOSE CODE	QSS
		DEPARTMENT	CEMNT
		SEC / TWP / RNG	10 - 10 - 25W

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
WILSON 89377			
PEAKENSTEEL H1682			
LEKER H6872			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
39604	122						
53292m	122						
4444 - S070	122						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug	OMEGA 1	HOWCO
Head	PC 1	HOWCO
Packer	SHOE / FORM 1	HOWCO
Other		

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		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
TIME	5-8 0430	5-8 0730	5-8 1015	5-8 1700

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	14	5 1/2	0	3894	PSTD
Liner						
Liner						
Tbg/D.P.			2 7/8	0	3671	PKR/SNOB
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations			8	3770	3862	
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
5-8	9 1/2	5-8	5	CEM-LEKER
TOTAL		TOTAL		

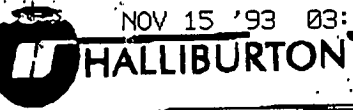
HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
AVERAGE RATES IN BPM
 TREATED _____ Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 FEET 0' Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
LD	100	MED CENTER II	B	290cc	3.22	11.1
TL	50	MED CENTER II	B	290cc 1/4 # FLOXIC PLUS	2.44	12.0

Circulating _____ Displacement _____ 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 (BB) 57.3 - 217 = 179
 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 _____



JOB LOG 4299-5

TICKET #	196487	TICKET DATE	5-8-97
BDA / STATE	KANSAS	COUNTY	GRAHAM
PSL DEPARTMENT	CMAST		
CUSTOMER REP / PHONE	DUNNAN SULLIVAN		
API / UWI #			
JOB PURPOSE CODE	255		

REGION	North America	NWA/COUNTRY	MEXICO
MBU ID / EMP #	89371	EMPLOYEE NAME	WILSON
LOCATION		COMPANY	CITATION OIL & GAS
TICKET AMOUNT		WELL TYPE	07
WELL LOCATION		DEPARTMENT	CMAST
LEASE / WELL #	71	SEC / TWP / RNG	10 - 10 - 25W

ORIGINAL

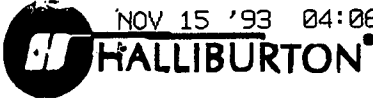
HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
WILSON 89371			
WILSON 89371			
WILSON 89371			

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
1	0430							CALLED OUT
	0730							ON LOCATION - DISCUSS JOB PROCEDURE
	1017	4	21	✓		300		PUMP TUB VOLUME - WAIT ON ORDERS - 1200 BRID BALL
	1206	4	80	✓		300		TRY TO BREAK CIRCULATION - WELL NOT CIRCULATE
	1253	4	45	✓		300		" " " "
	1210							RUN 1 ST TO 3640'
	1330	4	17	✓		300		TRY TO CIRCULATE - WELL NOT
	1415							RUN 1 ST TO 3640'
	1415	6	22	✓		600		BRACK CIRCULATION - REG UP TO CEMENT
2	1432	6	12	✓		600		" "
	1435	4	79	✓		200		MAX CEMENT (150 SLS) - CIRCULATING
	1435							WASH OUT PUMP - LINES - RELEASE PLUG
	1500	4	0	✓				START DISPLACEMENT
	1504	1	18	✓		650		SLOW RATE - GOOD CMT. RETURN TO PIT
	1508	1	21	✓		1400		PLUG DOWN - CIRCULATION 5 SLS TO PIT - GOOD CEMENT
	1512					1800		PSE UP - BLOW OUT PACKER SHOE GUTS
	1513	1	10	✓		450		INJECTION RATE - CLEAR PERFS
	1528			✓		VAC		STOP - SHUT DOWN
								WASH UP TUB
								PAKE UP
								DO DEBITS
	1700							JOB COMPLETE

THUR 11/15/93

WAYNE, MISSOURI

RECEIVED
STATE COMBUSTION COMMISSION
JUN 9 1997
CONSERVATION DIVISION
Wichita, Kansas



JOB SUMMARY 4239-1

TICKET # 197202	TICKET DATE 5-13-97
BDA / STATE Mid cont KS	COUNTY Osage
PSL DEPARTMENT 5043	CUSTOMER REP / PHONE Don Salmen 623-1557
API / UWI #	JOB PURPOSE CODE 230

REGION North America	NWA/COUNTRY Mid cont USA
MBU ID / EMP # 420503 - 59734	EMPLOYEE NAME K. Richmeier
LOCATION Osage, KS	COMPANY Citation Oil & Gas
TICKET AMOUNT 217.25	WELL TYPE 07
WELL LOCATION NW 3rd, Osage, KS	DEPARTMENT 5001
LEASE / WELL # 7-2 ERICK	SEC / TWP / RNG

ORIGINAL

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
K. Richmeier 59734			
T. Robinson Smith 41632			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
40091 P.W.	120						
53370 P.T	120						
4944 5070 Bulk cont	120						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	5-13-97	5-13	5-13	5-13
TIME	1100	1215	1230	1355

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						
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. _____	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 _____	
Partpac Balls _____	Qty. _____	
Other _____		
Other _____		
Other _____		
Other _____		

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
5-13	2	5-13	2	Pump 50 SPS Injection 2400 Ann.
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
AVERAGE RATES IN BPM
 TREATED _____ STATE _____ Disp. _____ Overall _____
CEMENT LEFT IN PIPE
 FEET _____ Reason/Notes _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIONS	YIELD	LBS/GAL
	50	Midcont			7.22	11.1

Circulating _____ Displacement _____ 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 _____ 34 _____ Total Volume Gal - BBI _____

JOB LOG 4398-3

REGION North America	NWA/COUNTRY	TICKET # 177303	TICKET DATE 6-18-93
EMBU ID / EMP #	EMPLOYEE NAME	BDA / STATE	COUNTY
LOCATION	COMPANY	PSL DEPARTMENT	
TICKET AMOUNT	WELL TYPE	CUSTOMER REP / PHONE	
WELL LOCATION	DEPARTMENT	API / DWT #	
LEASE / WELL #	SEC / TWP / RNG	JOB PURPOSE CODE	ORIGINAL

HEB EMP NAME/EMP#/(EXPOSURE HOURS)	HRB	HEB EMP NAME/EMP#/(EXPOSURE HOURS)	HRB	HEB EMP NAME/EMP#/(EXPOSURE HOURS)	HRB	HEB EMP NAME/EMP#/(EXPOSURE HOURS)	HRB

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (PSI)		JOB DESCRIPTION / REMARKS
				T	C	Tbq	C2g	
	1100							Called out to pump, 60 SKS mid control cont down Bradford Head (8 3/4" casing)
	1215							on loc, safety meeting discuss with
	1230							0 NOOK UP TO 75" casing 45% cont
	1235							250 2000 pump
	1305	34						150 cont mixed 60 SKS
	1310							90 shut down holding 90 PSI
	1315							90 shut in @ casing
								MAX PRESS 300 PSI shut in press 90 PSI 60 SKS pumped
	1400							Job complete [Signature] Ken & Tom

RECEIVED
 JUN 9 1993
 CONSERVATION DIVISION
 Wichita, Kansas