

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

ORIGINAL

API NO. 15- 179-21,009-00-00

County Sheridan

ME NE SW NE Sec. 32 Twp. 8s Rge. 27 X W

2310 Feet from S N (circle one) Line of Section

2970 Feet from E W (circle one) Line of Section

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

Lease Name Mosier Well # 3

Field Name _____

Producing Formation _____

Elevation: Ground 2560' KB 2565'

Total Depth 4315' PBSD _____

Amount of Surface Pipe Set and Cemented at 251 Feet

Multiple Stage Cementing Collar Used? Yes XX No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from TD

feet depth to surface w/ 550 sx cmt.

Drilling Fluid Management Plan 1-10-92
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 100 bbls

Dewatering method used allowed to dry - backfill

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 9860

Name: Castle Resources, Inc.

Address 1200 E. 27, Suite C

City/State/Zip Hays, KS 67601

Purchaser: _____

Operator Contact Person: Jerry Green

Phone (913) 625-5155

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Jerry Green

Designate Type of Completion

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: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBSD

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

6/11/91 6/19/91 9/12/91

Spud Date Date Reached TD Completion Date

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 Galen D. McGarland


Title Chief Operating Officer Date 1/3/92

Subscribed and sworn to before me this 3rd day of January, 1992.

Notary Public Laura Hertel

Date Commission Expires 7-2-95

K.C.C. OFFICE USE ONLY
F 3 RECEIVED
Letter of Confidentiality Attached
KANSAS CORPORATION COMMISSION
Wireline Log Received
Geologist Report Received
1/6/92
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
CONSERVATION DIVISION
WICHITA, KS
(Specify)

 LAURA HERTEL
NOTARY PUBLIC STATE OF KANSAS
My Appt. Exp. 7-2-95

P1

SIDE TWO

Operator Name Castle Resources, Inc

Lease Name Mosier

Well # 3

Sec. 32 Twp. 8s Rge. 27
 East
 West

County Sheridan

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:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Anhydrite	2184	376
Heebner	3669	-1109
Toronto	3692	-1132
L-KC	3707	-1147
B-KC	3934	-1374
Mississippi	4247	-1687

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 1/2"	8 5/8"	19	251'	Standard	120	2% gel, 3%cc
Production	7 7/8"	4 1/2"	9.5	4314'	Pozmix A HDL EA-2	80 350 165	5#gilsonite, Flo. 4%gel, 2%cc, 3%

ADDITIONAL CEMENTING/SQUEEZE RECORD Thix-0-Tropic 35(18% salt, 5%CFR-3) Cal-Se

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
1	3836', 3865', & 3877' H, I, J zones	500 gal. 15% MCA acid	3836, 65, & 77'
1	3694', 3711', & 3778' Toronto, A&E Zones	600 gal. 15% MCA acid	3694, 3711, & 78'
4	3748-3754' C-D zone, 3787-3792' E-F zone, 3900-3905' K zone		
1	3752', 3790', 3902', & 4270' C-F, K, & Miss.	4500 gal. Hydrochloric acid	all perfs

TUBING RECORD Size 2 3/8" Set At 3642' Packer At 3643' Liner Run Yes No

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

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

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 _____

SWIFT FORMATION TESTERS ORIGINAL

1309 VAN FLEET PHONE 793-5177

GREAT BEND, KANSAS

15-179-21009-00-00

Date June 16, 1991 Test No. 1

Company Castle Resources

Test Ticket No. 5582 County Sheridan Lease Mosier Well 3

Initial Shut-In - Hr. - Min. Tool Open - Hr. 20 Min. Final Shut-In - Hr. 20 Min.

Interval Tested 3676 to 3700 Total Depth 3700

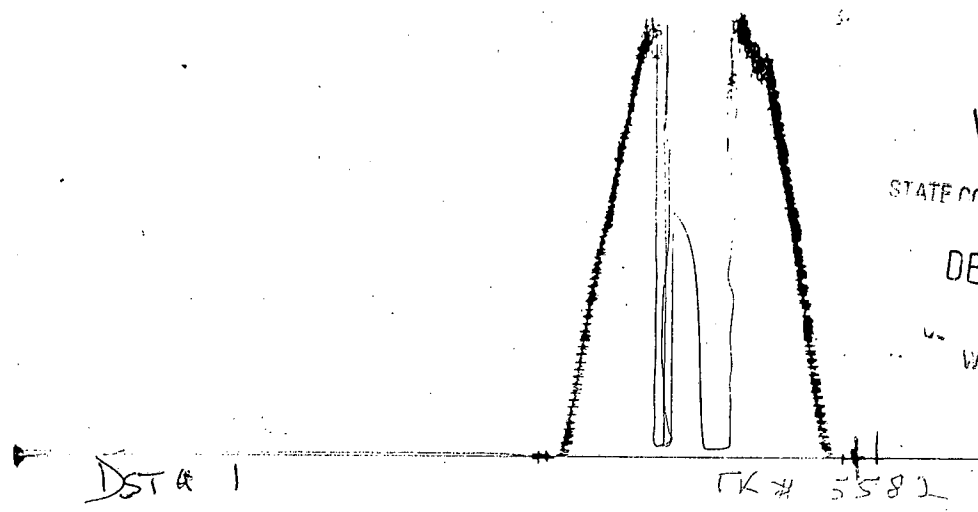
Blow: Weak for 12 min. - No blow 2nd - Out of hole - Minutes Initial Flow Period
after 15 min. - Flushed Tool

Recovery and Remarks:

15^v Mud

Initial BHP: - Final BHP: 1042# Initial FP: 33# Final FP: 33#

Tester Nelson Call Approved By: Jerry Green



12/12/91
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STATE CORPORATION COMMISSION
DEC 12 1991
REGULATION DIVISION
Wichita, Kansas

SWIFT FORMATION TESTER ORIGINAL

1309 VAN FLEET

PHONE 793-5177

GREAT BEND, KANSAS

15-179-21009-00-00

Date June 17, 1991

Test No. 2

Company Castle Resources

Test Ticket No. 5583 County Sheridan Lease Mosier Well 3

Initial Shut-In - Hr. 30 Min. Tool Open - Hr. 30 Min. Final Shut-In - Hr. 30 Min.

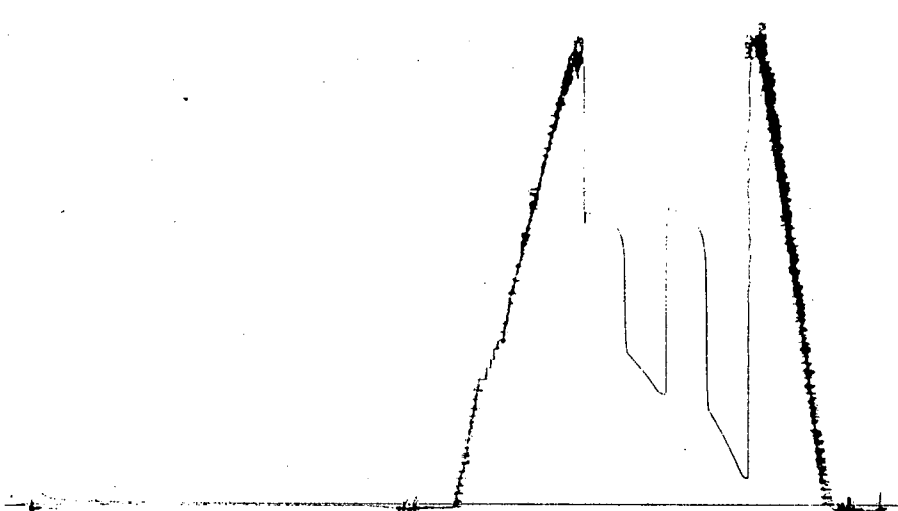
Interval Tested 3840 to 3910 Total Depth 3910

Blow: Good thru-out test 30 Minutes Initial Flow Period

Recovery and Remarks: 1320' Water

Initial BHP: 1276# Final BHP: 1260# Initial FP: 109-404# Final FP: 471-656#

Tester Nelson Call Approved By: Jerry Green



DST # 2

TL 5583

12/12/91
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STATE CORPORATION C

DEC 12 1991

CONSERVATION I
Vichita, Kas

20%



ORIGINAL

TICKET NO. 051655-X

FORM 1906 R-11 *FDH*

WELL NO. - FARM OR LEASE NAME 2 Mosier		COUNTY Sherman	STATE KS	CITY / OFFSHORE LOCATION	DATE 6-11-91
CHARGE TO Castle Resources		OWNER Castle Resources		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Emphasis		LOCATION 1 Oberlin KS	CODE 25529
CITY, STATE, ZIP		SHIPPED VIA 3243	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO S.E. Hoxie KS		LOCATION 3
TYPE AND PURPOSE OF JOB 010		B-945663	ORDER NO.	REFERRAL LOCATION	

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. Those terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L. O. C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117		1		MILEAGE 3243	45	mi			2.60	117.00
001-016		1		Pump Charge	254	ft				475.00
030-503		1		LA-11 Top Plug	1	EA	8 7/8 in			90.00
218-505		1		Pen-88					41.00	
218-742		1		LA-8 sta					28.50	
218-717		1		HC-2					21.00	
218-702		1		LOSER 259					24.00	
210-094		1		HA-65					12.00	

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12 12 91
Wichita Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B-945663** 1815.66

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X *John J. Phillips*
CUSTOMER OR HIS AGENT (PLEASE PRINT)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Jack Moore
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

SUB TOTAL 2497.66
APPLICABLE TAXES BE ADDED ON INVOICE

15-179-21009-00-00



BULK MATERIALS DELIVERY

AND

TICKET CONTINUATION

ORIGINAL

 FOR INVOICE AND TICKET NO. 051655

A Division of Halliburton Company

DATE 6-11-91		CUSTOMER ORDER NO.		WELL NO. AND FARM 2 Mosier			COUNTY Sheridan			STATE Ks	
CHARGE TO Castle Resources				OWNER Castle			CONTRACTOR Emphasis			No. B 945663	
MAILING ADDRESS RR 1 Stonewood Estates				DELIVERED FROM Oberlin, Ks			LOCATION CODE 25529		PREPARED BY vlk		
CITY & STATE				DELIVERED TO SE Hoxie KS			TRUCK NO. 50181		RECEIVED BY <i>Jack Moore</i>		

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE L D	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT		
				QTY.	MEAS.	QTY.	MEAS.				
504-308			Standard Cement	120	sk			6.75	810	00	
506-105			Pozmix	80	sk			3.50	280	00	
506-121			Halliburotn Gel Allowed 2% (3)							NC	
509-406			Calcium Chloride	6	sk			25.25	157	50	
								RECEIVED DEC 12 1991 12/12/91 DIVISION Wichita, Kansas			
			Returned Mileage Charge			LOADED MILES		TON MILES			
								SERVICE CHARGE ON MATERIALS RETURNED			
								CU. FEET			
500-207			SERVICE CHARGE					212	1.15	243 00	
								CU. FEET			
500-306			Mileage Charge	18,020		45		405.45	.80	324 36	
								TOTAL WEIGHT			
								LOADED MILES			
								TON MILES			
No. B 945663		15-179-21009-00-00						CARRY FORWARD TO INVOICE		SUB-TOTAL	
										1815 66	

DISTRICT Hays KS DATE 6-11-91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Castle Resources (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 2 LEASE Mosier SEC 30 TWP 8S RANGE 27W
 FIELD SE Hoxie KS COUNTY Sheridan STATE KS OWNED BY Castle Resources

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT:

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 PACKER: TYPE _____ SET AT _____
 TOTAL DEPTH 254 MUD WEIGHT _____
 BORE HOLE 12 1/4
 INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF _____
 PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>N</u>	<u>20</u>	<u>8 5/8</u>	<u>KB</u>	<u>254</u>	
LINER						
TUBING						
OPEN HOLE			<u>12 1/4</u>	<u>KB</u>	<u>254</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____
Cement Surface Casing w/ 200 sks 60/40 Poz w/ 2% Gel & 3% CC as directed

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
 - That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

DEC 12 1991
 12/12/91
 CONSERVATION DIVISION
 Wichita, Kansas

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED [Signature] CUSTOMER
 DATE 6-11-91

15-179-21009-00-00

WELL DATA

FIELD SE Hoxie KS SEC. 30 TWP. 8S RNG. 27W COUNTY Sheridan STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 254

CASING	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
	<input checked="" type="checkbox"/>	<u>N 20</u>	<u>8 7/8</u>	<u>113</u>	<u>254</u>	
LINER						
TUBING						
OPEN HOLE			<u>12 1/4</u>	<u>113</u>	<u>254</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>LA-11 8 7/8</u>	<u>1EA</u>	<u>Howco</u>
HEAD		
PACKER		
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL API _____

DISPL. FLUID _____ DENSITY _____ LB/GAL API _____

PROP. TYPE _____ SIZE _____ LB _____

PROP. TYPE _____ SIZE _____ LB _____

ACID TYPE _____ GAL _____ % _____

ACID TYPE _____ GAL _____ % _____

ACID TYPE _____ GAL _____ % _____

SURFACTANT TYPE _____ GAL _____ IN _____

NE AGENT TYPE _____ GAL _____ IN _____

FLUID LOSS ADD. TYPE _____ GAL-LB _____ IN _____

GELLING AGENT TYPE _____ GAL-LB _____ IN _____

FRIC. RED. AGENT TYPE _____ GAL-LB _____ IN _____

BREAKER TYPE _____ GAL-LB _____ IN _____

BLOCKING AGENT TYPE _____ GAL-LB _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-11-91</u>	DATE <u>6-11-91</u>	DATE <u>6-11-91</u>	DATE <u>6-12-91</u>
TIME <u>1800</u>	TIME <u>2030</u>	TIME <u>2350</u>	TIME <u>0100</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Moore</u>	<u>3043</u>	
<u>G. Bryant</u>	<u>HT-400RCM</u>	<u>Oberlin KS</u>
<u>E. Gamee</u>	<u>50181</u>	
	<u>BulkTK</u>	<u>Oberlin KS</u>

DEPARTMENT Cement

DESCRIPTION OF JOB Cement Surface Csg w/ 200 Sks 60/40 Pcc 40% Gel 25% CC

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE J. Collins

HALLIBURTON OPERATOR Jack Moore COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD (CU.FT/SK)	MIXED LBS/GAL
	<u>200</u>	<u>60/40 Pcc</u>			<u>2% Gel 3% CC</u>	<u>1.28</u>	<u>14.3</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 15 REASON Requested

SUMMARY

PRESLUSH (BBL-GAL) 5 TYPE Fresh Water

LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

TREATMENT: BBL-GAL _____ DISPL. (BBL-GAL) 15.6

CEMENT SLURRY: BBL-GAL 45.6

TOTAL VOLUME: BBL-GAL _____

REMARKS See Job Log

Thank you

STATE CORPORATION COMMISSION

RECEIVED

DEC 12 1991

OPERATION DIVISION

12/12/91

CUSTOMER: OASIS RECORDS MASTER WELL NO. 15-179-21009-00-00 JOB TYPE: Cement Surface Csg DATE: 6-11-91

HALLIBURTON SERVICES
JOB LOG

WELL NO. 2 LEASE Mosier TICKET NO. 001600
 CUSTOMER Castle Resources PAGE NO. 1 of 1
 JOB TYPE Cmt Surf. Csg ORIGINAL DATE 11-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1800							Called out - Ready @ 2130
	2030							On location - Rig drilling @ 70'
	2240							Hole Cut
	2320							Out of hole w/ B.T. Change over to run 8 5/8" casing
	2335							Start Running Casing 6 Jts 20 1/2 ft 8 5/8" casing
	2359							Finish running casing
	0003							Rig Circulate
	0010							Hook up to Howco
	0013 5							Start 5 bbl Spacer ahead
	0015 5		5 wtr					Finish Spacer - Start Cmt. 200 sks 60/40 + 2 1/2 4 1/2 60 + 3% CC
	0026 5 1/2		45.6 cmt					Finish Cement - Shut Down
	0027 5 1/2							Release Plug & Start Disp.
	0030 5 1/2		15.6 wtr					Finish Displacement
								Circulated 6 bbl Cement
	0034							Wash up truck
	0045							Rack up
	0100							Job complete

RECEIVED
STATE CORPORATION COMMISSION
12/12/91
DEC 12 1991

CONSERVATION DIVISION
Wichita, Kansas

15-179-21009-00-00

HALLIBURTON SERVICES
Duncan, Oklahoma 73536

ORIGINAL NO. **051678-0**

15-179-21009-00-00

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME #3 Mosier		COUNTY Sheridan	STATE Ks.	CITY / OFFSHORE LOCATION	DATE 6-19-91
CHARGE TO Castle Resources		OWNER Same	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Emphasis Drll	LOCATION 1 Oberlin, Ks. 25529		CODE
CITY, STATE, ZIP		SHIPPED VIA 4719 3579-50181	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO. B-945675	DELIVERED TO SE Hoxie, Ks.		LOCATION 3
TYPE AND PURPOSE OF JOB Cement Prod. Co.		ORDER NO.	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
000-117		1		MILEAGE (3579)	45	mi.			2.60	117	00
001-016		1		Pump Charge	4315	FE.			1300.00	1300	00
030-016		1		Top Plug	1	ea.	4 1/2	IN.	35.00	35	00
12A	825 201	1		Regular Guide Shoe	1	ea.	4 1/2	IN.	89.00	89	00
24A	815.19101	1		Insert Float Valve	1	ea.	4 1/2	IN.	73.00	73	00
27	815.19111	1		Auto-Fill Assembly	1	ea.	1.0	IN.	27.50	27	50
40	807.93004	1		S-4 Centralizer	8	ea.	4 1/2	IN.	43.00	344	00
320	800.8881	1		Cement Basket	3	ea.	4 1/2	IN.	85.00	82	00
66	807.64021	1		Fas-Grip Clamp	15	ea.	4 1/2	IN.	9.60	144	00
60	807.0007	1		Roto-wax Chasers	7	ea.			22.00	154	00
019-000		1		Bitum. Material	507	gal			2.25	15	75

NOT AN INVOICE

RECEIVED
STATE COMMISSION
12/12/91
DEC 12 1991
SERVATION DIVISION
Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-945675

7709 77

WAS JOB SATISFACTORILY COMPLETED? _____
WAS OPERATION OF EQUIPMENT SATISFACTORY? _____
WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Eldon Reynolds
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

X CUSTOMER OR HIS AGENT (PLEASE PRINT)
X *Tom W. Williams*
CUSTOMER OR HIS AGENT (SIGNATURE)

CUSTOMER

SUB TOTAL
APPLICABLE TAXES WILL BE ADDED ON INVOICE.

BULK MATERIALS DELIVERY

AND

TICKET CONTINUATION

ORIGINAL

FOR INVOICE AND
TICKET NO.

051678-0

15-179-21009-0020



DATE 6/19/91	CUSTOMER ORDER NO.	WELL NO. AND FARM 3 Mosier	COUNTY Sheridan	STATE KS
CHARGE TO Castle Resources		OWNER Castle Resources	CONTRACTOR Emphasis Drlg.	No. B 945675
MAILING ADDRESS		DELIVERED FROM Oberlin, KS	LOCATION CODE 26529	PREPARED BY Lyle
CITY & STATE		DELIVERED TO S/Hoxie, KS	TRUCK NO. 4718-50181	RECEIVED BY <i>Eddy Ray</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
		L	D		QTY.	MEAS.	QTY.	MEAS.		
504-308		1	B	Standard Cement	228	sk			6.75	1539.00
506-105		1	B	Pozmix 'A'	122	sk			3.50	427.00
506-121		1	B	Halliburton Gel Allowed 2%						N/C
507-277		1	B	Halliburton Gel Added 8%	24	sk			14.75	354.00
507-285		1	B	Econolite	522	lb			.90	469.80
508-091		1	B	Gilsonite	1750	lb			.35	612.50
507-210		1	B	Flocelke	45	lb			1.30	58.50
504-308		1	B	Standard Cement	35	sk			6.75	236.25
507-277		1	B	Halliburton Gel Added 4%	1	sk				14.75
508-127		1	B	Cal-Seal	2	sk			19.70	39.40
509-406		1	B	Calicum Chloride	1	sk				26.25
504-308		1	B	Standard Cement	165	sk			6.75	1,113.75
509-968		1	B	Salt Granulated	1287	lb			.10	128.70
508-291		1	B	Gilsonite	825	lb			.35	288.75
508-127		1	B	Cal-Seal	8	sk			19.70	157.60
507-153		1	B	CFR-3	78	lb			4.10	319.80
509-554		1	B	Halliburton Gel On Side	1	sk				14.75
RECEIVED STATE COMMISSION										
		Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES		TON MILES			
			53,006		45		1708.45			
		SERVICE CHARGE ON MATERIALS RETURNED	RESERVATION DIVISION Wichita, Kansas		CU. FEET		CU. FEET			
500-207		1	B		625-687		1.15			790.05
500-306		1	B	Mileage Charge	58,162		.80			718.75
No. B 945675										CARRY FORWARD TO INVOICE
										SUB-TOTAL
										7,051.86
										7709.77

CUSTOMER

DISTRICT Hays, Ks. DATE 6-19-91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Castle Resources (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. #3 LEASE Mosier SEC. 32 TWP. 8^s RANGE 27^w

FIELD SE Hoxie, Ks. COUNTY Sheridan STATE Ks OWNED BY Castle Resources

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____ FORMATION THICKNESS _____ FROM _____ TO _____ PACKER: TYPE _____ SET AT _____ TOTAL DEPTH _____ MUD WEIGHT _____ BORE HOLE 7 7/8" INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		9.5	4 1/2"	KB	4215	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU-TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED Cement 4 1/2" Prod. Csg. w/ 500 gal. mud flush - 350 sks. HDL - 5* Gilsomite - 1/8" Floate/sk. 35 sks. Thix-O-Tropic - 4% Gel - 5* Cal-Seal - 28 C.C. - 1/65 sks FA-2 18% Salt - .5% CFR - 3 5* Gilsomite

As directed

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
- That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies punitive or consequential damages.
- That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

RECEIVED STATE CORPORATION 12/12/91 DEC 12 1991

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED Tom L. Williams CUSTOMER

DATE 6-19-91

TIME 1500 A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

CUSTOMER: Castle Resources
LEASE: Mosier
WELL NO: # 3
JOB TYPE: 4 1/2" Prod. Csg.
DATE: 6-19-91

WELL DATA:
FIELD: SE Hoxie, Ks. SEC. 32 TWP. 8^S RNG. 27^W COUNTY: Sheridan STATE: Ks.

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH: 4315'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	u	9.5	4 1/2"	KB	4315'	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOOR-ROCKER <u>Auto-Fillup 4 1/2</u>	<u>1 ea.</u>	<u>Halco</u>
PLATE-SHOE <u>Insert Float 4 1/2</u>	<u>1 ea.</u>	
GUIDE SHOE <u>Ron 4 1/2</u>	<u>1 ea.</u>	
CENTRALIZERS <u>S-4 4 1/2</u>	<u>8 ea.</u>	
BOTTOM FEED <u>Cemb. Pskt 4 1/2</u>	<u>3 ea.</u>	
TOP PLUG <u>5-w 4 1/2</u>	<u>1 ea.</u>	
HEAD <u>Rotating & Clamp</u>	<u>1 ea.</u>	
PACKER <u>Fis-Grip Clamp 4 1/2</u>	<u>15 ea.</u>	
OTHER <u>Rotowall Cleaners</u>	<u>7 ea.</u>	

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-19-91</u>	DATE <u>6-19-91</u>	DATE <u>6-19-91</u>	DATE <u>6-19-91</u>
TIME <u>1000</u>	TIME <u>1430</u>	TIME <u>1651</u>	TIME <u>2135</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
DISPL. FLUID _____ DENSITY _____ LB/GAL. API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN
NE AGENT TYPE _____ GAL. _____ IN
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
GELLING AGENT TYPE _____ GAL.-LB. _____ IN
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
BREAKER TYPE _____ GAL.-LB. _____ IN
BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN
PERFPAC BALLS TYPE _____ QTY. _____
OTHER 100* Halliburton Gel

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>E Reynolds</u>	<u>RCM HT-400</u>	
<u>J. Atstrom</u>	<u>3579 Bm</u>	<u>Oberlin, Ks.</u>
<u>Floyd</u>	<u>50181 Bm</u>	<u>Oberlin, Ks.</u>
<u>John</u>	<u>4718</u>	<u>Oberlin, Ks.</u>

DEPARTMENT: Cementing
DESCRIPTION OF JOB: Cement 4 1/2" Prod. Csg.
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.
CUSTOMER REPRESENTATIVE: X [Signature]
HALLIBURTON OPERATOR: [Signature] COPIES REQUESTED: _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>300</u>	<u>HDL</u>			<u>5* Gilsomite - 1/8" Flocele/sk.</u>	<u>3.62</u>	<u>10.7</u>
	<u>35</u>	<u>Thin-O-Topic</u>			<u>4% Gel - 5% Cal-Seal - 2% C.C.</u>	<u>1.58</u>	<u>12.7</u>
	<u>165</u>	<u>EA-2</u>			<u>18% Salt - .5% CFR - 3-5* Gilsomite</u>	<u>1.44</u>	<u>15.5</u>

PRESSURES IN PSI _____ SUMMARY _____ VOLUMES _____
CIRCULATING _____ DISPLACEMENT _____ PRESFLUSH: BBL. gal 40.0 TYPE Water/W
BREAKDOWN _____ MAXIMUM _____ STATE COMMISSION _____ PAD: BBL. gal 5.0-Gel
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL. gal 69.6
SHUT-IN: INSTANT _____ 5-MIN. _____ HYDRAULIC HORSEPOWER DEC 12 1991 CEMENT SLURRY: BBL. gal 193.4-10.0-42.3
ORDERED _____ AVAILABLE _____ AVERAGE RATES IN BPM 12/12/91 TOTAL VOLUME: BBL.-GAL. _____ REMARKS See Job log & Chart
TREATING _____ DISPL. _____ CEMENT LEFT IN PIPE _____ OVERALL _____ Cement Circulated to Pit
FEET 17.91 REASON Shoe Joint Thank you

JOB LOG

FORM 2013 R-2

WELL NO. #3

LEASE Mosier

TICKET NO. 051678-0

CUSTOMER Castle Resources ORIGINAL #1 of

JOB TYPE 4 1/2" Production Csg.

DATE 6-19-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS *		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							Called out - Job ready @ 1430 hrs.
	1430							ON Loc. - Reg. @ 1430 - Rig lay down DP -
	1548							DP out of hole - Rig up to run csg. - Setup -
	1651							Start 4 1/2" Csg. & float Equip. - Reg. Guide Shoe
								Insert float w/ Auto fill on #1 S-4 Cent.
								on #1-6-11" - 14" - 15" - 17" 58" - 105"
								3 Cmt. BSKts. - 7(5') Roto wall Cleaners
	1914							15 Fas-Grip Clamps As per Co. man
	1926							Csg. @ 4315' - Hook up Rotating head & P.C.
	1949							Rig St. Circ. & Rotating Csg. - mix 40 bbl. mud thin
	1953	6.0	40.0				350	Hook up to P.T. - Rig Rotate Csg.
	2003	6.0	5.0				500	Start 40 bbl. water w/ mud thinner
	2005	6.0	193.4				450	Start 5 bbl. Gelled water
	2030	4.0	10.0				200	Start mixing 300 SKs. HDL-5" Gilsomite - 1/8" Hoco
								Start mixing 35 SKs. Thix-O-Tropic
	2033	6.0	42.3				200	4% Gel - 5" Cal-Seal - 2% C.C.
								Start mixing 165 SKs. EA-2 w/ 18% Salt
	2040	6.0					200	.5% CFR-3 - 5" Gilsomite
								Finish mixing Cement
	2043	5.5	69.6				100	Washup Pump & Lines - Release 4 1/2" Top Plug
	2049						400	Start disp
	2052						900	33 bbl. disp in - Press. Increasing
	2055						1875	Stop Rotating Csg. (55 bbl. pumped)
							1875	Plug down - Final Circ. Press. = 1100*
							1875	Run integrity test for 30 min.
	2130						1875	Holding 1875" - Release Press.
	2132						0	Insert holding
	2135							Job Completed

Thank you
Eldon - Terry
John - Floyd

Cement Circulated to Pit

RECEIVED
STATE COMMISSION
12/12/91
DEC 12 1991