

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- 101-21,591-0000

County Lane

NW - NW - NW - 26 Sec. 19s Twp. 29 Rge. X E

4950 Feet from (S) (circle one) Line of Section

4950 Feet from (E) (circle one) Line of Section

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

Lease Name Jewett Well # 1

Field Name _____

Producing Formation _____

Elevation: Ground 2833' KB 2840'

Total Depth 4715' PBDT _____

Amount of Surface Pipe Set and Cemented at 256 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from TD

feet depth to surface w/ 465 sx cat.

Drilling Fluid Management Plan 1-9-92
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 80 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 67601-2120

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

X New Well _____ Re-Entry _____ Workover _____

X Oil _____ SWD _____ SLOW _____ 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 _____ PBDT

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

6/26/91 7/4/91 7/13/91

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. McFarland

Title Chief Operating Officer Date 1-3-92

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

Notary Public Laura Hentel

7-2-95

Date Commission Expires
NOTARY PUBLIC-STATE OF KANSAS
My Appt. Exp. 7-2-95

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
 Wireline Log Received
 Geologist Report Received
Distribution
 KCC _____ SWD/Rep _____ NGPA
JAN 6 1992 _____ Plug _____ Other _____
1-6-92
CONSERVATION DIVISION
WICHITA, KS
Form ACO-1 (7-91)

Operator Name Castle Resources, Inc. Lease Name Jewett Well # 1

Sec. 26 Twp. 19s Rge. 29 East West County Lane

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" 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	Anhydrite	2162	- 90
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3969	-1129
List All E.Logs Run:		L-KC	4010	-1170
		Stark Shale	4296	-1456
		B-KC	4384	-1544
		Marmaton	4414	-1574
		Pawnee	4502	-1662
		Ft Scott	4548	-1708
		Miss LMS	4638	-1798
		Mis Dol	4660	-1820

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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	12 1/4"	8 5/8"	19	262'	60/40 Poz	140	2% gel, 3%cc
Production	7 7/8"	4 1/2"	10.5	4710'	Econolite	275	5#gilsonite Flocele
					EA-2 Common	155/35	5% calseal, 18% salt/.5%CFR-3

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
4	4662-4667'	Mississippi Dolomite	250 gal. 15% MCA acid	4662-67'
4	4549-4552'	Fort Scott	250 gal. 15% MCA acid	4549-52'
4	4341-4344'	Middle Creek	250 gal. 15% MCA acid	4341-44'

TUBING RECORD	Size 2 3/8"	Set At 4496'	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj. 7-17-91	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours	Oil	Bbls. 18	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: SP

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

2510

ORIGINAL

Drill-Stem Test Data

Well Name JEWETT #1 Test No. 1 Date 7/2/91
Company CASTLE RESOURCES Zone Tested MIDDLE CREEK
Address RR #1 BOX 90 HAYS KS 67601 Elevation 2832 GL
Co. Rep./Geo. MR JERRY GREEN Cont. EMPHASIS RIG #7 Est. Ft. of Pay 5
Location: Sec. 26 Twp. 19S Rge. 29W Co. LANE State KS

Interval Tested 4333-4342 Drill Pipe Size 4.5 XH
Anchor Length 9 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4328 Drill Collar — 2.25 Ft. Run 30
Bottom Packer Depth 4333
Total Depth 4342

Mud Wt. 9.3 lb / gal. Viscosity 41 Filtrate 8.8

Tool Open @ 6:47 Initial Blow VERY GOOD BOTTOM OF BUCKET IN 3 MINUTES

Final Blow GOOD-BOTTOM OF BUCKET IN 10 MINUTES

Recovery — Total Feet 630 Flush Tool? NO

Rec. 2900 Feet of GAS IN PIPE

Rec. 540 Feet of CLEAN GASSY OIL

Rec. 90 Feet of MUD & GAS CUT OIL

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2168.9 PSI Ak1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 90.4 PSI @ (depth) 4337 w/Clock No. 27585

(C) First Final Flow Pressure 171.4 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-In Pressure 612.5 PSI @ (depth) 4342 w/Clock No. 27567

(E) Second Initial Flow Pressure 205.3 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 258.9 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 603.4 PSI Initial Opening 45 Final Flow 45

(H) Final Hydrostatic Mud 2148.7 PSI Initial Shut-In 45 Final Shut-In 45

Our Representative HARRY SCHMIDT TOTAL PRICE \$ 550

FORM 1906 R-11

WELL NO. — FARM OR LEASE NAME <u>#1 Jewett</u>		COUNTY <u>Lane</u>	STATE <u>Kc</u>	CITY/OFFSHORE LOCATION	DATE <u>6-26-91</u>
CHARGE TO <u>Castle Resources</u>			OWNER <u>Same</u>	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 <u>Emphasis Rm #10</u>	LOCATION <u>1 N. Main City, Kc</u>	CODE <u>25553</u>
CITY, STATE, ZIP			SHIPPED VIA <u>3500</u>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT	LOCATION <u>2 Home, Kc</u>
WELL TYPE <u>01</u>	WELL CATEGORY <u>01</u>	WELL PERMIT NO.	DELIVERED TO <u>S/Dighton, Kc</u>	3 LOCATION	CODE <u>25525</u>
TYPE AND PURPOSE OF JOB <u>010</u>			ORDER NO. <u>B-904234</u>	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		
<u>000-117</u>		<u>1</u>		<u>MILEAGE 3580</u>	<u>40</u>	<u>mi</u>			<u>2.60</u>	<u>109.00</u>
<u>001-016</u>		<u>1</u>		<u>Pump Charge</u>	<u>262</u>	<u>ft.</u>				<u>475.00</u>
<u>030-503</u>		<u>1</u>		<u>2 cup wooden Plug</u>	<u>1ea</u>		<u>8 3/4</u>	<u>in</u>		<u>9.00</u>

NOT THIS IS AN INVOICE

DEC 18 1991

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. 2 B- 904234 1101.96

WAS JOB SATISFACTORILY COMPLETED?	_____
WAS OPERATION OF EQUIPMENT SATISFACTORY?	_____
WAS PERFORMANCE OF PERSONNEL SATISFACTORY?	_____
X <u>[Signature]</u>	CUSTOMER OR HIS AGENT (PLEASE PRINT)
X _____	CUSTOMER OR HIS AGENT (SIGNATURE)

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.
_____ HALLIBURTON OPERATOR
_____ HALLIBURTON APPROVAL
_____ CUSTOMER

SUB TOTAL
APPLICABLE TAXES WILL BE ADDED ON INVOICE.

DISTRICT Hays, Ks.

DATE 6-26-91

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. #1 LEASE Jewett SEC. 26 TWP. 19S RANGE 29W

FIELD _____ COUNTY LANE STATE Ks. OWNED BY Jerry Green

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH <u>262'</u>	MUD WEIGHT						
BORE HOLE <u>12 1/2"</u>							SHOTS/FT.
INITIAL PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Cement 8 5/8" casing to ground level with 140 sacks 100/110 H₂O, 2% gel, 3% C.C.

DEC 1 1991

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.

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 6-26-91

TIME 1730 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



JOB SUMMARY

HALLIBURTON DIVISION Oklahoma City, Ok.
 HALLIBURTON LOCATION Ness City, Ks.

BILLED ON TICKET NO. 125660

ORIGINAL

WELL DATA

FIELD _____ SEC. 26 TWP. 19s RNG. 29w COUNTY Lane 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 263

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	19 5/8	8 5/8	MB	263'	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>2 cup wooden</u>	<u>1</u>	<u>Howco</u>
HEAD <u>8 5/8</u>	<u>1</u>	<u>Howco</u>
PACKER		
OTHER		

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-26</u>	DATE <u>6-26</u>	DATE <u>6-26</u>	DATE <u>6-26</u>
TIME <u>1405</u>	TIME <u>1730</u>	TIME <u>1930</u>	TIME <u>2115</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. Lowman</u>	<u>3580</u>	
<u>M. Keenan</u>	<u>Combo</u>	<u>Ness City, Ks.</u>
<u>S. Litch</u>	<u>51052</u>	
	<u>B-Tik</u>	<u>Hays, Ks.</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 _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement casing to surface.

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X D. Lowman

HALLIBURTON OPERATOR A. Keenan COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>1-10</u>	<u>60/40 Poz</u>	<u>A</u>	<u>B</u>	<u>2% 901, 3% C.C.</u>	<u>1.28</u>	<u>17.36</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

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

ORDERED _____ AVAILABLE _____ USED _____

TREATING _____ DISPL. _____ OVERALL _____

FEET 20' REASON Requested

HYDRAULIC HORSEPOWER _____

AVERAGE RATES IN BPM _____

CEMENT LEFT IN PIPE _____

PRESLUSH: BBL.-GAL. _____ TYPE _____

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

TREATMENT: BBL.-GAL. _____ DISPL. BBL.-GAL. 15.7

CEMENT SLURRY: BBL.-GAL. 32

TOTAL VOLUME: BBL.-GAL. _____

REMARKS See Job Log & Chart

Thank you Dan & crew

CUSTOMER: Castle Resources WELL NO. 1 JOB TYPE: Perforate Surface DATE: 6-26-91

JOB LOG

WELL NO. #1 LEASE Jewett TICKET NO. 125660

CUSTOMER Castle Resources ORIGINAL PAGE NO. 1

JOB TYPE Cement Surface DATE 12-26-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							On location @ requested time Rig daly 12 1/4" hole to 262'
								Set up Howco-equip. Rig fin daly - Cir hole Pull D.P.
	1935							Start 8 5/8" casing
	2035							Hook to landing Jt. in Derrick.
	2045							Rig circulate down casing
	2110							Casing on bottom.
	2120							Fin cir. - Hook to Howco-equip.
	2120	5	32				800 250	Start 140 srs 1 1/4" 40 Pz, 2 1/2 gal and 3 1/2 C.C.
	2134						175	Fin mixing end.
	2135						175	Release 2wp Top Plug.
	2138	5	15 3/4				175	Start Displ.
	2141						225	Fin Displ. - cement to surface
	2142						100	Close in at Head
	2143						0	Release press @ P.T.
	2145							Wash up & Pack up. Job Complete
								Thank You D. Lemman 71718 M. Keenan E0740 S. Luch D 9165

DEC 18 1991



HALLIBURTON SERVICES
Duncan, Oklahoma 72528

A Division of Halliburton Company

TICKET

NO. 125709-1

PAGE 1 OF 2 PAGES

2220 Cnd & BM. d FE
4707

WELL NO. - FARM OR LEASE NAME: #1 JEWETT COUNTY: LING STATE: Ks CITY / OFFSHORE LOCATION: DATE: 7-4-91

CHARGE TO: CASTLE RESOURCES OWNER: SPMC TICKET TYPE (CHECK ONE): SERVICE SALES NITROGEN JOB: YES NO

ADDRESS: ROUTE 1 Box 90 CONTRACTOR: EMPHASIS #10 LOCATION 1 NESS CITY Ks CODE: 25553

CITY, STATE, ZIP: HAYS, Ks. 67601 SHIPPED VIA: 3580 FREIGHT CHARGES: PPD COLLECT LOCATION 2 HAYS, Ks CODE: 25525

WELL TYPE: 01 WELL CATEGORY: 01 WELL PERMIT NO.: B-904237 DELIVERED TO: S/W DIGHTON, Ks LOCATION 3 CODE: REFERRAL LOCATION:

TYPE AND PURPOSE OF JOB: 635

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 3580	40	mi			2.60	104	00
001-016		1		PUMP CHARGE	4706	FT.			1365.	1365	00
12 A	825.201	1		GUIDE SHOE	1	EA	4 1/2	in	89.00	89	00
24 H	815.19101	1		INSERT FLUNT VALVE	1	EA	4 1/2	in	73.00	73	00
27	815.19111	1		FILL-UP UNIT	1	EA	1.00	in	27.50	27	50
40	807.93004	1		CENTRALIZERS	10	EA	4 1/2	in	43.00	430	00
320	800.8881	1		CEMENT BASKETS	4	EA	4 1/2	in	35.00	340	00
60	807.0007	1		ROTO WALL CLEANERS	13	EA			22.00	286	00
66	807.64001	1		LIMIT CLAMPS	2	EA			9.60	211	00
30-016		1		TOP PLUG	1	EA	4 1/2	in	32.00	32	00
018-317		1		SUPER-FLUSH	12	SX			87.00	1044	00
019-000		1		Bonding material	13	ea			4.00	52	00
DEC 1 1991											

2 AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B-904237 5847 26

IS JOB SATISFACTORILY COMPLETED? _____

IS OPERATION OF EQUIPMENT SATISFACTORY? _____

IS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT): [Signature]

CUSTOMER OR HIS AGENT (SIGNATURE): [Signature]

HALLIBURTON OPERATOR: [Signature]

HALLIBURTON APPROVAL: [Signature]

SUB TOTAL: 990396

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

BULK MATERIALS DELIVERY

AND

TICKET CONTINUATION

ORIGINAL

FOR INVOICE AND TICKET NO.

123709

HALLIBURTON SERVICES

A Division of Halliburton Company

DATE 7-4-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Jewett #1	COUNTY Lane	STATE Kansas
CHARGE TO Castle Resources		OWNER Same	CONTRACTOR Emphasis Drlg.	No. B904237
MAILING ADDRESS		DELIVERED FROM Hays, Ka	LOCATION CODE 25525	PREPARED BY Kuhn
CITY & STATE		DELIVERED TO S/W Dighton, Ka	TRUCK NO. 0530 3703	RECEIVED BY <i>B. Christian</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
				QTY.	MEAS.	QTY.	MEAS.			
8504-3085	516.00261	2B	Standard Cement	190				5.45	1,035	50
			275Cu. Ft. Pozmix Cement 10% Gel							
504-388	516.00261	2B	Standard Cement	179				5.45	975	55
506-105	516.00286	2B	Pozmix 'A'	96				3.00	288	00
506-121	516.00259	2B	5sk Halliburton Gel 02%							n/c
507-277	516.00259	2B	Halliburton Gel 08%	19				14.75	280	25
507-285	70.15250	2B	Econolite Blended	500	lb			.90	450	00
508-291	70.15573	2B	Gilsonite Blended	2150	lb			.47	1,010	50
507-210	890.50071	2B	Flocele Blended	58	lb			1.30	75	40
508-127	890.50131	2B	Cal Seal Blended	8				19.70	157	60
509-968	516.00315	2B	Salt Blended	1195	lb			.10	119	50

STAT
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		Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES					
		SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET				
500-207	2B	SERVICE CHARGE				585 CU. FEET	1.15	672	75	
500-306	2B	Mileage Charge	48,888 TOTAL WEIGHT	40 LOADED MILES	977.760 TON MILES		.80	782	21	
No. B904237		CARRY FORWARD TO INVOICE					SUB-TOTAL		5,847	26

DISTRICT HAYS, KS

DATE 7-4-91

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

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING (CUSTOMER)

WELL NO. 1 LEASE JEWETT SEC. 24 TWP. 19S RANGE 29W

FIELD _____ COUNTY LANE STATE KS. OWNED BY SNMC

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH 4715 MUD WEIGHT _____
BORE HOLE _____
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>U</u>	<u>10.5</u>	<u>4 1/2</u>	<u>TOP</u>	<u>4706</u>	
LINER						
TUBING						
OPEN HOLE				<u>4706</u>	<u>4715</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS				<u>1</u>		
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

CEMENT 4 1/2 CS9 WITH 275 SX. ECONOLITE 5 # OILSONIC PER SX, 1/8" FLOCCULE PER SX. 12 BBL SUPER K FLUSH, 35 SX COMMON 1/4" FLOCCULE PER SX, AND 155 SX E11-2, 5% CALSOL, 1% SALT, 1/2% CFR-3, 5# OILSONIC PER SX. 1/4" FLOCCULE PER SX 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

- a) 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.
- b) 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:
 1. 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.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. 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.
- c) 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.
- d) 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.
- e) 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.
- f) 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.
- g) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- h) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- i) 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.

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

SIGNED Fred P. Williams CUSTOMER
DATE 7-4-91

WELL DATA
FIELD: SEC. 26 TWP. 19S RNG. 29W COUNTY: LIND STATE: KS

FORMATION NAME: TYPE: FROM: TO: THICKNESS:
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: 4715

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	10.5	4 1/2	760	4706	
LINER	47					
TUBING						
OPEN HOLE			7 1/8	4706	4715	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE Reg 4 1/2	1	Hanco
CENTRALIZERS 5-4 4 1/2		
BOTTOM PLUG		
TOP PLUG 5-W 4 1/2	1	
INSERT VALVE 4 1/2	1	
ROTOR WALL CLEANER		
OTHER CEMENT BASKET 4 1/2	4	

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 7-4-91	DATE 7-4-91	DATE 7-4-91	DATE 7-4-91
TIME 0115	TIME 0400	TIME 0900	TIME 1430

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
M. KOENIG	3580	Ness City, KS
B. CROSSWHITE	COMB	Ness City, KS
R. TALLIAFERRO	3703 BULK	Hays, KS
D. WALKINGSTICK	0530 BULK	Hays, KS
T. FUCHS		Ness City, KS

MATERIALS

TREAT. FLUID: DENSITY: LB/GAL-API

DISPL. FLUID: DENSITY: LB/GAL-API

PROP. TYPE: SIZE: LB

ACID TYPE: GAL: %

SURFACTANT TYPE: GAL

LINE 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:

DEC 1 1991

DEPARTMENT: CEMENT

DESCRIPTION OF JOB: CEMENT 4 1/2 PRODUCTION CSG.

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE: X Tony P. Wilcox

HALLIBURTON OPERATOR: B. Crosswhite

COPIES REQUESTED:

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	275	ECONOMIX	Hanco	B	5" GUNSONITE Pw Sv. 1/2" Fluoride	3.14	11.0
	35	STD	Hanco	B	1/2" Fluoride Pw Sv	1.18	15.6
	133	ELL-2	Hanco	B	570 Gm Seal 18% Salt, 1/2% CR-3	1.36	15.5
					5" GILSONITE 1/2" Fluoride		

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: CEMENT LEFT IN PIPE: FEET: 14.91 REASON: #5 SINCE JOINT

SUMMARY

VOLUMES

PRELUSH: BBL-GAL: TYPE: LOAD & BKDN: BBL-GAL: PAD: BBL-GAL: TREATMENT: BBL-GAL: 155.7, 7.7, 39.7 (BBL-GAL) 74.5 CEMENT SLURRY: (BBL-GAL) TOTAL VOLUME: BBL-GAL: REMARKS: See Job Log & Report THUMP YES

CUSTOMER: OSTLE RESOURCES
LEASE: JEWETT
WELL NO: 1
JOB TYPE: LONG STRIP
DATE: 7-4-91

JOB LOG

WELL NO. 1 LEASE JEWETT TICKET NO. 125709
 CUSTOMER CASTLE RESOURCES PAGE NO. 1
 JOB TYPE LONGSTRING DATE ORIGINAL

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0115							Called Out
	0400							On Loc Rig Circulating
	09:20							ST 4 1/2 CS
								Ran Guide Sizer on Bottom of Sizer
								Joint Insert Float Valve with
								Fill up Unit on Top of Sizer Joint
								Centralizers on 1, 3, 4, 6, 8, 9,
								11, 15, 19, 63 Joints
								Baskets on 2, 7, 19, 64 Joints
								Scratchers on 1, 4, 9, 10, 12 Joints
	12:00							Csg on Bottom
	12:15							Hookup to Rigs Pump to Circ. CS
	12:52							Hookup to TRK.
	12:53							Mix 1 SX of Col
	12:54					600		ST. Cement with 975 SX Economizing
								5# GILSONITE 1/4" Flocote Per SX
	13:17	7	160			200		Finish Cement
	13:18/12	5	115			1000		Pump 115 BBL Mud Spacer
	13:43	2	2			1000		Pump 2 BBL Spacer
	13:44	4	12			1000		ST. 500 gal SUPER K Flush
	13:46	2	2			1000		Pump 2 BBL Spacer
	13:49	4	8			900		ST. 35 SX STANDARD 1/4" Flocote
								Per SX
	13:51					700		ST. 155 SX EA-2, 5% Chl-Sol
								14% SMT, 1/2% OPR-3 5# GILSONITE
			3					1/4" Flocote Per SX
	13:57	6	34			0		Finish Cement
	13:58							Without Pump, Line
	13:59							Release Top Plug
	13:59		7			0		ST. Disp
	14:10	1 1/2	73			1600		Finish Disp Plug Landed
	14:10					1000		Float Held Circ. Col. to BBL of
	14:20							Wait, Recover Tool
	14:45							JOB Complete

DEC 18 1991

T.F. 13119
 B. G. 13119

A. Hall 13119