

ORIGINAL

RELEASED

NOV 9 9 1992

11/9/92

FROM CONFIDENTIAL

SIDE ONE

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

Operator: License # 5352

Name: Baird Oil Co., Inc.

Address Box 428

City/State/Zip Logan, Ks. 67646

Purchaser: Farmland

Operator Contact Person: Jim R. Baird

Phone (313) 689-7456

Contractor: Name: Abercrombie

License: _____

Wellsite Geologist: Jim R. Baird

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd. Wichita, Kansas
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

7-20-91 7-26-91 8-2-91

Spud Date Date Reached TD Completion Date

API NO. 15- -163-23,175 0000

County Rooks

NW SE NE Sec. 20 Twp. 7S Rge. 19 East West

3630 Ft. North from Southeast Corner of Section

990 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

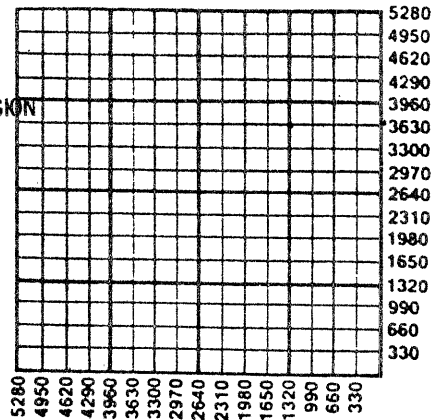
Lease Name Griebel Well # 5

Field Name U.S. #24

Producing Formation Arbuckle

Elevation: Ground 1955 KB _____

Total Depth 3440 23' open hole PBD _____



10-21-91

Amount of Surface Pipe Set and Cemented at 209' Feet

Multiple Stage Cementing Collar Used? YES Yes No

If yes, show depth set 1412 Feet

If Alternate II completion, cement circulated from 1412

feet depth to suface w/ 350' sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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.

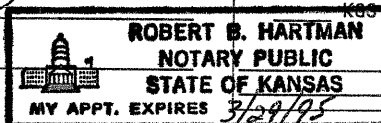
Signature Jim R. Baird

Title Executive Vice-President Date 10-17-91

Subscribed and sworn to before me this 17th day of OCTOBER, 19 91.

Notary Public Robert B. Hartman

Date Commission Expires 3/29/95



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 Plug Other (Specify)

SIDE TWO

Operator Name Baird Oil Co., Inc. Lease Name Griebel Well # 5
 Sec. 20 Twp. 7S Rge. 19W East County Rooks West

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.)

DST#1(3107-3160)30-30-30-30 IFP:50
 FFP:50 ISIP: 800 FSIP:657 Rec.20'
 of mud w/oil spots; some clean oil
 at top of tool. 1st open: weak blow
 1/4" or less; 2nd open: no blow
 (See attached page)

Name	Formation Description	
	Top	Bottom
Heebner	3100	-1140
Toronto	3126	-1166
Lansing	3143	-1183
B/KC	3350	-1390
Arb	3402	-1442
TD	3415	-1455

CASING RECORD New Used
 Report all strings set-conductor, surface, intermediate, production, etc.

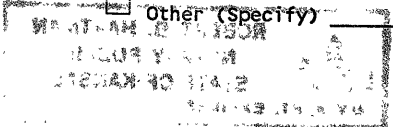
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/2	8-5/8	28#	209'	60-40	165	3%cc2%gel.
Production		4-1/2"	10 1/2#	3417	50/50 common	40 200	2%gel. 12 1/2#gil. 18#salt 3/4 of 1% CFR-3
Cement 2nd stage: 350sx Halliburton lite 1/4#floce1							

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	N/A		

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First Production 8-8-91 Producing Method Flowing Pumping Gas Lift Other (Explain)
 Estimated Production Per 24 Hours Oil 4 bbl. Bbls. Gas 30 bbl. Mcf Water 30 bbl. Bbls. Gas-Oil Ratio 30.5 Gravity

Disposition of Gas: none METHOD OF COMPLETION Open Hole Perforation Dually Completed Commingled
 Vented Sold Used on Lease (If vented, submit ACO-18.)



DST (cont)

15163 23 175000
GRIEBEL #5

30-30

DST #2 (3264-3292)/IFP:24 FFP:24 ISIP:78 FSIP: none
Rec. 5 ft. of mud, oil spots at top of tool.
1st open: very weak blow, dead in 20 minutes.
2nd open: no blow.

DST #3 (3287-3330) 45-45-45-45 IFP:23 FFP:28 ISIP: 65
FSIP: 391 Rec. 215 Ft. GIP: 40 ft. clean oil;
60 ft. HOCM 1st open: weak to fair blow, 6" in
water after 45 min. 2nd open: fair blow, 7"-8"
in wtr. after 45 min. Shut-in tool possibly
leaking on ISIP

DST#4 (3349-3415) 45-45 IFP: 52 FFP: 52 ISIP: 408 FSIP: none
Rec. 25 ft. of SOCM 1st open: weak blow ½" in wtr.
2nd open: no blow

DST #5 (3349-3440) 30-30-30-30 IFP: 86 FFP: 134 ISIP: 1006
FSIP: 1008 Rec. 20 ft. of GIP; 30 ft. clean oil;
42 ft. of OCWM; 62 ft. of OCWM; 62 ft. of HOCM;
124 ft. of SOCMW. 1st open: fair to strong blow,
bottom of bucket in 26 min. 2nd open: fair blow,
10" in wtr. after 30 min.

RECEIVED
STATE CORPORATION COMMISSION

OCT 18 1991

CONSERVATION DIVISION
Wichita, Kansas

RES

NOV 09 1991 A Division of Halliburton Company

NAME	FROM: CONFIDENTIAL	COUNTY	STATE	CITY / OFFSHORE LOCATION	DATE
CHARGE TO	OWNER	TICKET TYPE (CHECK ONE)	NITROGEN JOB		
ADDRESS	CONTRACTOR	SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>		
CITY, STATE, ZIP	SHIPPED VIA	LOCATION	CODE		
WELL TYPE	WELL CATEGORY	WELL PERMIT NO.	DELIVERED TO	LOCATION	CODE
TYPE AND PURPOSE OF JOB	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			
582-111		1		MILEAGE	27				2.60	70.20	
561-810		1		Pump Ck	3111				11.75	1155.00	
553-111		1		Pump Ck 2.4500	1				10.25	10.25	
517-111		1		Super Fl	1				5.25	5.25	
71	512.80100	1		Automatic Stage Ck	1				2350.00	2350.00	
75	501.011	1		Plug Set	1				273.00	273.00	
220	506.5501	1		Cement Bucket	1				55.00	55.00	
40	501.9.004	1		S-11 G	7				42.86	299.92	
56	501.200	1		...	1				510.00	510.00	
50	535.125	1		...	1				2300.00	2300.00	
53	535.0251	1		...	1				45.00	45.00	
393	512.0119	1		...	1				234.00	234.00	

THIS IS NOT AN INVOICE

RECEIVED
 STATE CORPORATION COMMISSION
 OCT 18 1991
 CONSERVATION DIVISION
 Wichita, Kansas

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. B- 911711

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

X 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 5,382.45

148669

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

15163231750000
AND

RELEASED TICKET CONTINUATION

FOR INVOICE AND TICKET NO. 170657

SERVICES
Division of Halliburton Company

DATE 7-26-91	CUSTOMER ORDER NO. NOV 9 9 1991	WELL NO. AND FARM Griebel #5	COUNTY Rooks	STATE Kansas
CHARGE TO Baird Oil Co. Inc.		OWNER Same	CONTRACTOR Abercrombie Drilling Co.	NO. B 941761
MAILING ADDRESS		DELIVERED FROM Hays, ks	LOCATION CODE 25525	PREPARED BY Kuhn
CITY & STATE		DELIVERED TO N/W Stockton, ks	TRUCK NO. 3703 0530	RECEIVED BY <i>J. Beck</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
				QTY.	MEAS.	QTY.	MEAS.			
504-308	516.00261	1B	Standard Cement	200				5.45	1,090	00
504-316		1B	Halliburton Light Cement	350				5.21	1,823	50
			40Cu. Ft. Pozmix Cement	22	Gal					
504-308	516.00261	1B	Standard Cement	20				5.45	109	00
506-105	516.00286	1B	Pozmix 'A'	20				3.00	60	00
506-121	516.00259	1B	1 sk Halliburton Gel	22						n/c
509-968	516.00315	1B	Salt Blended	1560	lb			.10	156	00
507-153	516.00161	1B	CFR-2 Blended	94	lb			4.10	385	40
507-210	890.50071	1B	Flocele Blended	138	lb			1.30	179	40
508-292	70.15573	1B	Eilsonite Blended	100	lb			.47	235	00

THIS IS NOT AN INVOICE

RECEIVED
STATE CORPORATION COMMISSION
OCT 18 1991
CONSTRUCTION DIVISION
Topeka, Kansas

	Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES		
	SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET	
500-207	1B SERVICE CHARGE				632	1.15 726 80
500-306	1B Mileage Charge	53,462	27	72	737	.80 577 39
No. B 941761			CARRY FORWARD TO INVOICE	SUB-TOTAL		5,342 49

CUSTOMER

**WORK ORDER CONTRACT
AND PRE-TREATMENT DATA**

ATTACH TO
INVOICE & TICKET NO. 170657

RELEASED
DATE 7-26-91

DISTRICT Hays Ks

TO: **HALLIBURTON SERVICES** YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICES TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Band Oil Co. (CUSTOMER)
AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING FROM CONFIDENTIAL

WELL NO. 5 LEASE Grubel SEC. 20 TWP. 81 RANGE 9

FIELD _____ COUNTY Rock STATE Ks OWNED BY Some

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 _____
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>10</u>	<u>4 1/2</u>	<u>KD</u>	<u>411</u>	
LINER						
TUBING						
OPEN HOLE				<u>411</u>	<u>411</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

6. + 4 1/2" Prod Case - 2 stages

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 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 COMMISSION

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

OCT 18 1991

SIGNED [Signature]
CUSTOMER

DATE 7-26-91

TIME 11:00 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.

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

15163 23176 0000

Hay, Ks

110159

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RING. _____ COUNTY _____ STATE _____

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 _____

JOB DATA

NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	10"	43'	KE	3417'
LINER					
TUBING					
OPEN HOLE				3417'	3440'
PERFORATIONS					SHOTS/FT.
PERFORATIONS					
PERFORATIONS					

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
BEAGT SHOE	1	
GUIDE SHOE	1	
CENTRALIZERS		
BOTTOM-PLUG		
TOP PLUG		
HEAD		
PACKER	1	
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. _____ IN.

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. D.	Hay, Ks
D. A.	"
J. B.	"
E. H.	"

DEPARTMENT _____

DESCRIPTION OF JOB _____

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE **X** *Theresa Wiley*

HALLIBURTON OPERATOR *J.R. ...* COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	110	50-50 20	B		2% C. 1 + 12% C. 1	1.53	13.2
1	200	11-A	L		15% S. 1 + 5% C. F. 1 + 1% F. 1	1.26	16
2	300	MHC	L		1% Floc 1	1.34	12.7

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRES LUSH: BBL.-GAL. _____ TYPE _____

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

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. *54.7*

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. *(10.9 + 42.5) 53.4* *114.7*

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL.-GAL. _____

AVERAGE RATES IN BPM _____ STATE CORPORATION COMMISSION _____

TREATING _____ DISPL _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

OCT 18 1991

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER: ... DATE: 10/18/91

JOB LOG

15163231750000

CUSTOMER Beard Oil Co PAGE NO. 1

JOB TYPE Cont Prod Csg (2 stage) DATE 7-26-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	09:00							Called Out
	11:30							En Loc / F.E. - Run Strip Log
	14:55							Spot + Set up Equip - Plan Job
								Start 4 1/2" x 10.5" Csg in Hole
								1cc Pack, Shoe
								1cc Cont Basket @ 1456'
								1cc DV @ 1412'
								7cc Centralizers on
								1-2-3-5-6-8+46" Collars
								20cc Riego Scratcher
								15' apart from 3117' up
	16:15							Csg on Bottom
								Hook up PC - Mani. Fall
	16:25							Break Circ / Rig Pump + Reconnect
								Hook up to P.T.
	17:05					1250		Set Packer Shoe
	17:05					100		Start Pump Mud Flow (Super Pump)
	17:11					100		Mud Flow
	17:15					100		Start Mixing Cont
								40sk 50-50 Pp 1/2" Gal 12 1/2" Gdn
								20sk Class A 1/16" Sit 1/2" CTR 3-1/4" Flow
	17:27					175		Finish Mix Cont.
								Release Plug
								Plug Rat Hole Washout Pump
	18:27					100		Start Displ
	18:45					1500		Finish Displ (30 units @ 24" Mud)
	18:45					0		Release Pres - Dried up
	18:51							Drop Free Fall Plug
	19:13					1300		Open DV - Pump 36 BBL Mud
	19:25					200		Start Mix Cont
								350.2 HLC 1/4" Flow
	19:47					115		Finish Mixing Cont
	19:47							Release Plug
	19:51					800		Start Displ
	19:57					1000		Finish Displ - DV Closed
	19:59					0		Release Pres

Handwritten notes:
 1st hole
 2nd hole

RECEIVED
 STATE CORPORATION COMMISSION

OCT 18 1991

J-43212; / / / - B7383-ASH-E1609-Sub-E2261