

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 # 3317
Name: Beard Oil Company
Address Suite 200
5600 N. May Avenue
City/State/Zip Oklahoma City, OK 73112
Purchaser: Permian Oil Corporation
Operator Contact Person: Ivan D. Allred, Jr.
Phone (405) 842-2333

Contractor: Name: Murfin Drilling Company, Inc.
License: 30606
Wellsite Geologist: Kevin Davis

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

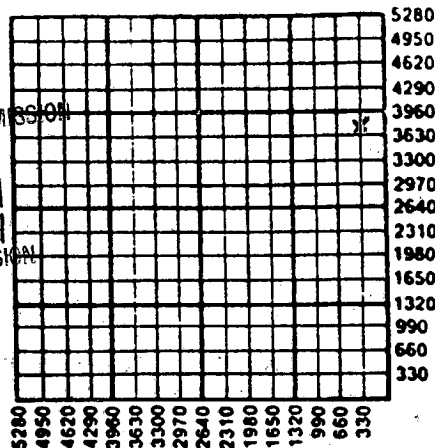
If OAWD: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
4-26-91 5-3-91 6-25-91
Spud Date Date Reached TD Completion Date

API NO. 15- 071-20,540-00-00
County Greeley
NE SE NE Sec. 15 Twp. 16S Rge. 42W East
3680 Ft. North from Southeast Corner of Section
330 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Young Well # 5-15
Field Name Sidney
Producing Formation Morrow Sand
Elevation: Ground 3801' KB 3810'
Total Depth 5200' PBDT 5148'

RECEIVED
STATE CORPORATION COMMISSION

08 1991
07-08-91
CONSERVATION DIVISION
Wichita, Kansas



7-17-91

Amount of Surface Pipe Set and Cemented at 357 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2097 Feet
If Alternate II completion, cement circulated from 2097'
feet depth to Surface w/ 300 HLC sx amt.

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 Ivan D. Allred, Jr.
Title Operations Manager Date 6-13-91
Subscribed and sworn to before me this 3rd day of July, 1991.
Notary Public: Magazine L. Garrett
Date Commission Expires 12-7-94

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

PI

SIDE TWO

Operator Name Beard Oil Company Lease Name Young Well # 5-15
 Sec. 15 Twp. 16S Rge. 42W East West
 County Greeley

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<p style="text-align: center;">Formation Description</p> <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Bottom</th> </tr> </thead> <tbody> <tr><td>Heebner</td><td>4068</td><td></td></tr> <tr><td>Lansing</td><td>4182</td><td></td></tr> <tr><td>Marmaton</td><td>4502</td><td></td></tr> <tr><td>Cherokee</td><td>4700</td><td></td></tr> <tr><td>Morrow Form</td><td>4962</td><td></td></tr> <tr><td>Morrow Sand</td><td>4970</td><td></td></tr> <tr><td>Mississippian</td><td>5126</td><td></td></tr> <tr><td>TD</td><td>5200</td><td></td></tr> </tbody> </table>	Name	Top	Bottom	Heebner	4068		Lansing	4182		Marmaton	4502		Cherokee	4700		Morrow Form	4962		Morrow Sand	4970		Mississippian	5126		TD	5200	
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CASING RECORD <input checked="" type="checkbox"/> New <input 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 1/2"	8 5/8"	20	357	60/40 Poz	235	2% gel, 3% cc
Production	7 7/8"	5 1/2"	15.5	5200	EA2	200	7# Gtl, 1/4#
					HOWCO Lite	300	7# Gtl, 1/4#

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4970-77	None	

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8	4991'	None	

Date of First Production 5-29-91	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 31.7 Bbls.	Gas 7.8 Mcf	Water 0 Bbls.	Gas-Oil Ratio 246 CF/B	Gravity 39.7

FC
FC

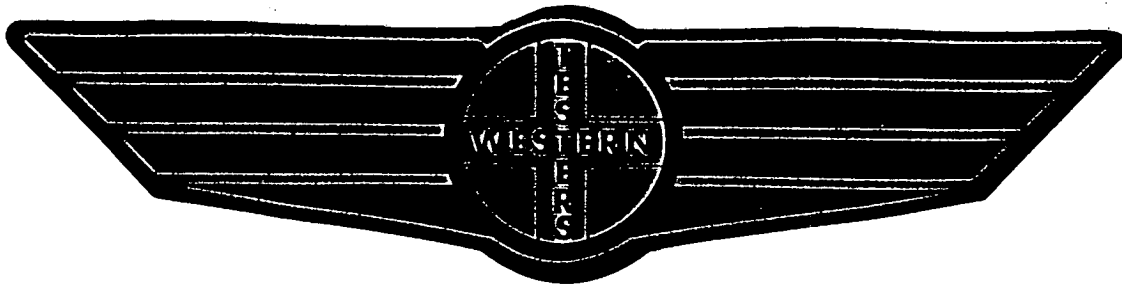
Disposition of Gas: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perforation <input type="checkbox"/> Dually Completed <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	Production Interval 4970-77
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ORIGINAL

15-071-20540-00-00

FORMATION TEST REPORT

COMPANY BEARD OIL COMPANY LEASE & WELL NO. YOUNG #5-15 SEC. 15 TWP. 16S RGE. 42W TEST NO. 1 DATE 5/2/91



Home Office:

Wichita, Kansas 67201

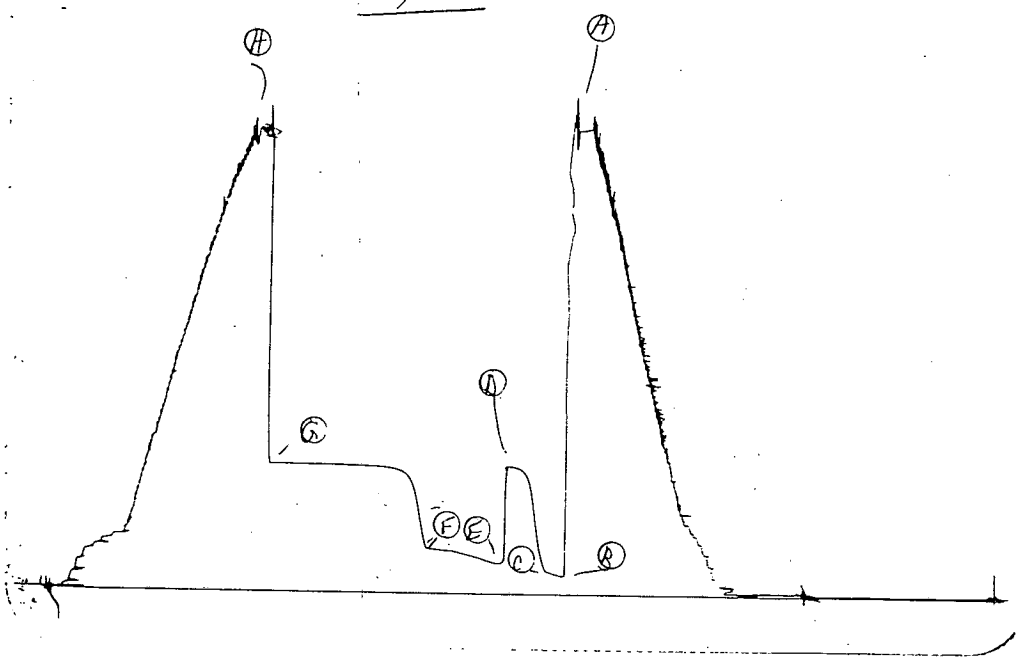
P.O. Box 1599

Phone 1 - 800-688-7021

15-071-20540-00-00

KA 17222
7

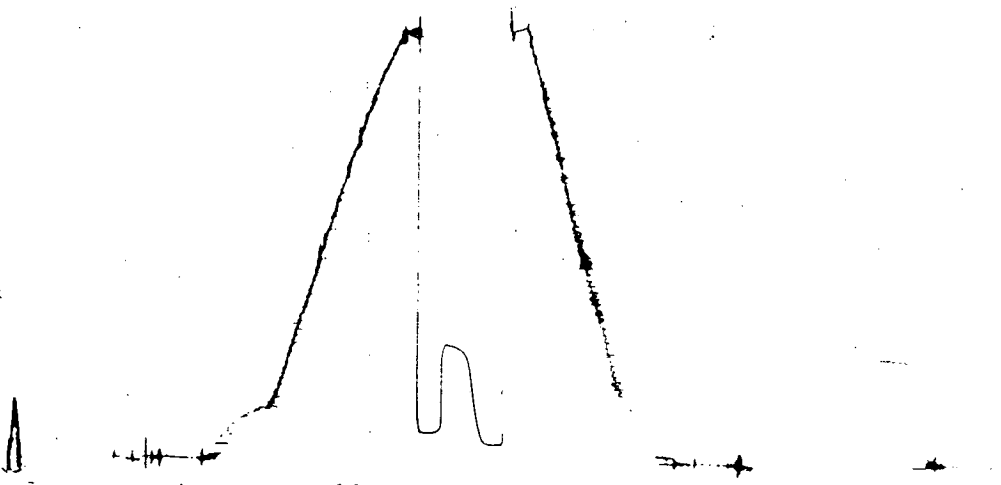
4/376



Inside Recorder

KA 17222
0

349



Outside Recorder

15-071-20540-00-00

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE	:	5-2-91	TICKET	:	17223
CUSTOMER	:	BEARD OIL COMPANY	LEASE	:	YOUNG
WELL	:	5-15 TEST: 1	GEOLOGIST	:	ALLRED ?
ELEVATION	:	3800 (EST) ESL	FORMATION	:	MORROW
SECTION	:	15	TOWNSHIP	:	16S
RANGE	:	42W	COUNTY	:	GREELEY
GAUGE SN#	:	4376	RANGE	:	4000
			STATE	:	KANSAS
			CLOCK	:	12

INTERVAL FROM	:	4924	TO	:	4970	TOTAL DEPTH	:	4970
DEPTH OF SELECTIVE ZONE	:							
PACKER DEPTH	:	4919	SIZE	:	6.75			
PACKER DEPTH	:	4924	SIZE	:	6.75			
PACKER DEPTH	:		SIZE	:				
PACKER DEPTH	:		SIZE	:				

DRILLING CON.	:	MURFIN DRILLING RIG 24			
MUD TYPE	:	CHEMICAL	VISCOSITY	:	45
WEIGHT	:	9.2	WATER LOSS (CC)	:	8.4
CHLORIDES (PPM)	:	5000			
JARS-MAKE	:	W.T.C.	SERIAL NUMBER	:	406
DID WELL FLOW ?	:	NO	REVERSED OUT ?	:	NO

DRILL COLLAR LENGTH	:	571	FT	I.D. inch	:	2.20
WEIGHT PIPE LENGTH	:	96	FT	I.D. inch	:	3.20
DRILL PIPE LENGTH	:	4226	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	31	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	46	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5XH

BLOW COMMENT #1	:	INITIAL FLOW PERIOD WEAK SURFACE BLOW DIED IN
BLOW COMMENT #2	:	3 MINUTES-THEN CAME BACK AFTER 28 MINUTES.
BLOW COMMENT #3	:	FINAL FLOW PERIOD FAIR BLOW BUILDING TO BOTTOM
BLOW COMMENT #4	:	OF BUCKET IN 4 MINUTES.

ORIGINAL

15-071-20540-00-00

RECOVERED : 40 FT OF: OIL CUT MUD-10%OIL:90%MUD
RECOVERED : 253 FT OF: GASSY OIL CUT MUD-29%GAS:10%OIL:61%MUD
RECOVERED : 277 FT OF: GASSY MUD CUT OIL-60%OIL:20%GAS:20%MUD
RECOVERED : 0 FT OF: CHLORIDES 6000 P.P.M.
RECOVERED : 0 FT OF: GRAVITY OF OIL-40 API @ 60 DEGREES

Total Barrels Fluid = 2.68
Total Fluid Prod Rate = 51.45 BFPD
Indicated Oil Rate = 17.65 BOPD
Indicated Wtr Rate = 2.22 BWPD
Corrected Oil Rate = 34.11 BOPD
Corrected Wtr Rate = 4.29 BWPD

REMARK 1 :
REMARK 2 : RECOVERED 40 FT. OF GAS ABOVE FLUID
REMARK 3 : OUTSIDE RECORDER STOPPED ON FINAL FLOW PERIOD
REMARK 4 :

SET PACKER(S) : 12:30 A.M. TIME STARTED OFF BOTTOM : 4:15 A.M.
WELL TEMPERATURE : 127
INITIAL HYDROSTATIC PRESSURE (A) 2379
INITIAL FLOW PERIOD MIN: 15 (B) 97 PSI TO (C) : 118
INITIAL CLOSED IN PERIOD MIN: 30 (D) 659
FINAL FLOW PERIOD MIN: 60 (E) 161 PSI TO (F) : 232
FINAL CLOSED IN PERIOD MIN: 120 (G) 661
FINAL HYDROSTATIC PRESSURE (H) 2371

ORIGINAL

15-071-20540-00-00

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : BEARD OIL COMPANY
RIG : GREELEY-KANSAS
FIELD : YOUNG
WELL : 5-15
DATE : 5-2-91
GAUGE NO : 4376

OPERATIONAL COMMENTS

RECOVERED 40 FT. OF GAS ABOVE FLUID
OUTSIDE RECORDER STOPPED ON FINAL FLOW PERIOD

COMPANY : BEARD OIL COMPANY
 WELL : 5-15
 GAUGE # : 4376
 DATE : 2/ 5/91

15-071-20540-00-00

FIELD : YOUNG
 JOB # : 17223
 DEPTH : 4970
 TEST :

ORIGINAL

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	12:30: 0	0.000	97.000	127.00	0.000
3	12:34:59	0.083	97.000	127.00	0.000
4	12:40: 0	0.167	107.000	127.00	10.000
5	12:45: 0	0.250	118.000	127.00	11.000
INITIAL SHUT-IN PERIOD					
6	12:48: 0	0.300	190.000	127.00	72.000
7	12:51: 0	0.350	297.000	127.00	107.000
8	12:54: 0	0.400	438.000	127.00	141.000
9	12:57: 0	0.450	560.000	127.00	122.000
10	13: 0: 0	0.500	611.000	127.00	51.000
11	13: 3: 0	0.550	635.000	127.00	24.000
12	13: 6: 0	0.600	647.000	127.00	12.000
13	13: 9: 0	0.650	653.000	127.00	6.000
14	13:12: 0	0.700	657.000	127.00	4.000
15	13:15: 0	0.750	659.000	127.00	2.000
FINAL FLOW PERIOD					
16	13:16: 0	0.767	161.000	127.00	-498.000
17	13:19:59	0.833	161.000	127.00	0.000
18	13:25: 0	0.917	163.000	127.00	2.000
19	13:30: 0	1.000	174.000	127.00	11.000
20	13:34:59	1.083	185.000	127.00	11.000
21	13:40: 0	1.167	195.000	127.00	10.000
22	13:45: 0	1.250	204.000	127.00	9.000
23	13:49:59	1.333	213.000	127.00	9.000
24	13:55: 0	1.417	221.000	127.00	8.000
25	14: 0: 0	1.500	224.000	127.00	3.000
26	14: 4:59	1.583	227.000	127.00	3.000
27	14:10: 0	1.667	230.000	127.00	3.000
28	14:15: 0	1.750	232.000	127.00	2.000
FINAL SHUT-IN PERIOD					
29	14:18: 0	1.800	316.000	127.00	84.000
30	14:21: 0	1.850	426.000	127.00	110.000
31	14:24: 0	1.900	525.000	127.00	99.000
32	14:27: 0	1.950	582.000	127.00	57.000
33	14:30: 0	2.000	611.000	127.00	29.000
34	14:33: 0	2.050	628.000	127.00	17.000
35	14:36: 0	2.100	635.000	127.00	7.000
36	14:39: 0	2.150	640.000	127.00	5.000
37	14:42: 0	2.200	645.000	127.00	5.000
38	14:45: 0	2.250	649.000	127.00	4.000
39	14:48: 0	2.300	650.000	127.00	1.000
40	14:51: 0	2.350	651.000	127.00	1.000
41	14:54: 0	2.400	652.000	127.00	1.000
42	14:57: 0	2.450	653.000	127.00	1.000
43	15: 0: 0	2.500	654.000	127.00	1.000
44	15: 3: 0	2.550	655.000	127.00	1.000
45	15: 6: 0	2.600	656.000	127.00	1.000
46	15: 9: 0	2.650	657.000	127.00	1.000
47	15:12: 0	2.700	658.000	127.00	1.000
48	15:15: 0	2.750	658.000	127.00	0.000

COMPANY : BEARD OIL COMPANY
WELL : 5-15
GAUGE # : 4376
DATE : 2/ 5/91

15-071-20540-0000 ORIGINAL
FIELD : YOUNG
JOB # : 17223
DEPTH : 4970
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	15:18: 0	2.800	659.000	127.00	1.000
50	15:21: 0	2.850	659.000	127.00	0.000
51	15:24: 0	2.900	660.000	127.00	1.000
52	15:27: 0	2.950	660.000	127.00	0.000
53	15:30: 0	3.000	660.000	127.00	0.000
54	15:33: 0	3.050	660.000	127.00	0.000
55	15:36: 0	3.100	660.000	127.00	0.000
56	15:39: 0	3.150	661.000	127.00	1.000
57	15:42: 0	3.200	661.000	127.00	0.000
58	15:45: 0	3.250	661.000	127.00	0.000
59	15:48: 0	3.300	661.000	127.00	0.000
60	15:51: 0	3.350	661.000	127.00	0.000
61	15:54: 0	3.400	661.000	127.00	0.000
62	15:57: 0	3.450	661.000	127.00	0.000
63	16: 0: 0	3.500	661.000	127.00	0.000
64	16: 3: 0	3.550	661.000	127.00	0.000
65	16: 6: 0	3.600	661.000	127.00	0.000
66	16: 9: 0	3.650	661.000	127.00	0.000
67	16:12: 0	3.700	661.000	127.00	0.000
68	16:15: 0	3.750	661.000	127.00	0.000

WESTERN TESTING CO. INC.

ORIGINAL

15-071-20540-0000

FLUID SAMPLE REPORT

Date : 5-2-91

Ticket No. : 17223

Company : BEARD OIL COMPANY

Well Name & No. : YOUNG 5-15

DST No. 1

County : GREELEY

State : KANSAS

Sampler No. : 1

Test Interval : 4924-4970

Pressure in Sampler 138 PSIG BHT 127 Deg F

Total Volume of Sampler : 3150 cc

Total Volume of Sample : 2000 cc

Oil: 2000 cc

Water: cc

Mud: cc

Gas: 1.02 cu ft

Other: cc

RESITIVITY

Drilling Mud 1.16 @ 60 F Chloride Content 6000 ppm

Mud Pit Sample 1.56 @ 60 F Chloride Content 4000 ppm

Gas/Oil Ratio Gravity 40 API @ 60 Deg F

Where was sample drained RIG FLOOR

Remarks:



HALLIBURTON SERVICES

A Halliburton Company

INVOICE

INVOICE NO. **051538** DATE **05/04/1991**
ORIGINAL

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
YOUNG 5-15		GREELEY		KS	BEARD OIL COMPANY	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
DORBERLIN		MURFIN DRLG #24		CEMENT PRODUCTION CASING		05/04/1991
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
061655	DAVID I ALLRED			COMPANY TRUCK	14893	

DIRECT CORRESPONDENCE TO:

BEARD OIL CO
ENTERPRISE PLAZA, SUITE 200
5600 NORTH MAY AVENUE
OKLAHOMA CITY, OK 73112

FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	80	MI	2.60	208.00
001-016	CEMENTING CASING	5200	FT	1,440.00	1,440.00
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	1,025.00	1,025.00
71	MULT STAGE CMTR 5 1/2" 8RD	1	EA	2,450.00	2,450.00
813.80300					
75	PLUG SET-FREE FALL-2' STAGE	1	EA	400.00	400.00
813.16500					
26	INSERT VALVE F. S. 5 1/2" 8RD	1	EA	245.00	245.00
847.6318					
27	FILL-UP UNIT 5 1/2" - 6 5/8"	1	EA	30.00	30.00
815.19311					
40	CENTRALIZER 5 1/2" MODEL S-4	12	EA	44.00	528.00
807.93022					
56	WALL CLEANER CABLE TYPE 5 1/2"	6	EA	27.50	165.00
807.2005					
320	CEMENT BASKET 5 1/2"	6	EA	90.00	540.00
800.6883					
018-317	SUPER FLUSH	12	SK	87.00	1,044.00
350	HALLIBURTON WELD-A	1	LB	11.50	11.50
890.10802					
504-308	STANDARD CEMENT	200	SK	6.75	1,350.00
509-968	SALT	1720	LB	.10	172.00
508-291	GILSONITE BULK	1400	LB	.35	490.00
508-127	CAL SEAL	10	SK	19.70	197.00
507-775	HALAD #522	142	LB	6.15	873.30
507-970	D-AIR 1, POWDER	48	LB	2.55	122.40
507-210	FLOCELE	50	LB	1.30	65.00
504-316	HALLIBURTON LIGHT W/STANDARD	300	SK	6.10	1,830.00
508-291	GILSONITE BULK	2100	LB	.35	735.00

***** CONTINUED ON NEXT PAGE *****

TERMS 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.

DISTRICT Hays KS DATE 5-4-91

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

WELL NO. 5-15 LEASE Young SEC. 15 TWP. 16s RANGE 42W
FIELD SW Sharon Springs KS COUNTY Greeley STATE KS OWNED BY Beard Oil Company

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH 5207' MUD WEIGHT 9.2
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	N	15.5	5 1/2	KB	5200		
LINER							
TUBING							
OPEN HOLE	STATE CORPORATION COMMISSION				KB	5207	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS	CONSERVATION DIVISION						
Wichita, Kansas							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Cement Production Casing w/ 200 sks EA2 Cement w/ 18% Salt + 75% Haled 322, 25% D-Air, 4" Block + 7/8" Gonite, 300 sks HL Cuy 7" Gilsonite + 1/2" Block
DEA Centralizer ca 1st 3rd 6th 8th 10th 14th 21st 25th 27th 25th 27th + 90th Jts
6EA Baskets w/ each 9th 20th 27th 76th 102nd + 114th 5 1/2" DV + Plug set

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.
- c) 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.
- d) 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.
- e) 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.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) 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 _____ TIME _____ 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 LOG

FORM 2013 R-2

WELL NO. 5-15 LEASE Young

TICKET NO. 051538

CUSTOMER Beard Oil Company

PAGE NO. ORIGINAL

JOB TYPE Cmt. Prod. Casing

DATE 5-4-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0900							Called out - Ready @ 1300
	1230							On location - Rig laying down drill pipe
	1345							Out of hole bit - Change over to run 5 1/2" casing
	1600							Pump truck + Bulk Trucks on loc.
	1620							Start running casing. 126 Jts new 15.5#/ft 5 1/2" casing. Insert float shoe w/ Auto fill on bottom of 1st. Joint. Latch down baffle in top of 1st. Joint. 41' shoe joint. 12 centralizers w/ 1EA on 1st, 3rd, 6th, 8th, 10th, 19th, 21st, 25th, 27th, 75th, 77th + 90th Jts. Cement Baskets on 9th, 20th, 26th, 76th, 102nd + 114th. 6EA Cable Wall Cleaners w/ 1st 7' up on 7th joint spaced 2' apart. DV Tool on top of 76th joint @ 2097'
	2005							Finish running casing
	2005							Rig circulate - Pumped ball through insert @ 600 psi work casing
	2043							Hook up to Howco
	2045	16	3 wtr					Start 3 bbl. Spacer
	2046	6						Finish spacer - Start 500 gal. Super Flash
	2048	6	12 Flash					Finish Super Flash - Start 2 sks Gel
	2099	6	56 gal					Finish Gel - Start Cement - 200 sks EA-2 w/ 18% Salt 17 SHald 322, 25% D-Air 7" Gilsonite + 1/4" floccle
	2103	6	5 1/2 cat					Finish Cement
	2103							Wash up pump + Lines
	2105	6 1/2						Release plug + start Disp w/ 72 bbl Fresh Water first 51, 8 bbl Mad.

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STATE CORPORATION COMMISSION
JUL 15 1991
CONSERVATION DIVISION
Kansas

CUSTOMER

HALLIBURTON SERVICES
JOB LOG

WE NO. 5-15 LEASE Young
CUSTOMER Beard Oil Co
JOB TYPE Cmt. Prod. Csg.

TICKET NO. 05/538
PAGE NO. 2 of 2
DATE 5-4-91

FORM 2013 R-2

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								Caught Pressure
	2124	5 1/2	123				800	Pressure & rate
	2124	5 1/2	123.8				1700	Plug down - Holding
	2127							Release - Held
	2132							Drop opening bomb
	2152						1200	Open DV
	2155							Rig Circulate
								Hook up to Howco
	0045	6 1/2					100	Start 2 sks Gel
	0046	6 1/2	5 Gel				100	Finish Gel - Start 300 sks HLC w/ 7# Gilsomite & 1/4# flocc
	0103	7	107 cmt.				200	Finish Cement - Shut Down
	0104	6					300	Release Plug & Start Displacement. Pressure increasing
	0109	6	27				550	Cement Circulated
	0111	5 1/2	40				600	Lost Returns - Cellar standing Full
	0113	6	49				700	Pressure & Rate
	0113	6	50				2200	Plug Down - Finish Disp. Holding, Cellar Full, No returns
	0117							Release - Held
	0118						2200	Pressure Div, Held
	0120							Release - Held
	0123							Wash up truck
	0133							Rack up
	0145							Job Complete

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JUL 15 1991

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER

WELL DATA

FIELD Salisburg Springs KS SEC. 15 TWP. 16S RANG. 42W COUNTY Greecley STATE KS

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5 1/2	KB	5200	
LINER						
TUBING						
OPEN HOLE			7 1/4	KB	4207	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

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. 9.2
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH 5207

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5-4-91</u> TIME <u>0900</u>	DATE <u>5-4-91</u> TIME <u>1230</u>	DATE <u>5-4-91</u> TIME <u>1600</u>	DATE <u>5-5-91</u> TIME <u>0145</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. Moore	3243	
J. Alstrom	HT-4002CM	Oberlin KS
	3846	
D. Clayton	Bulk TK	Oberlin KS
	5011	
A. Boatright	Bulk TK	Oberlin KS
	36654	
S. Dejan	Supervisor	Oberlin KS

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
Float Collar		
Float Shoe <u>Inseal 5 1/2"</u>	<u>1EA</u>	<u>Howco</u>
Guide Shoe <u>Antofill 1 1/2"</u>	<u>1EA</u>	
Centralizers <u>S-4 5 1/2"</u>	<u>1EA</u>	
Bottom Plug <u>DI Plus Set 5 1/2"</u>	<u>1EA</u>	
<u>DI Tool 5 1/2"</u>	<u>1EA</u>	
Head <u>Ceblk Well Cleaner 5 1/2"</u>	<u>1EA</u>	
Packer		
Other <u>Cmt. Baskets 5 1/2"</u>	<u>1EA</u>	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API
 DISPL. FLUID _____ DENSITY _____ LB/GAL-API
 PROP. TYPE _____ SIZE _____ LB
 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
 PERFRAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB _____
 JOB DONE THRU: TUBING CASING ANNULUS TREATMENT
 CUSTOMER REPRESENTATIVE David J. Med
 HALLIBURTON OPERATOR J. Moore S. Dejan COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>200</u>	<u>FA-2</u>			<u>1% Salt, 75% H₂O, 2.25% D.A.M</u>	<u>1.42</u>	<u>10.54</u>
<u>2</u>	<u>300</u>	<u>HLC</u>			<u>7% Gilsontec 4 1/2" Floc K, 7% Gilsontec H₂Floc K</u>	<u>2.08</u>	<u>12.3</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PREFLUSH: BBL-GAL 500 TYPE Super Flush
 BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____
 AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISP. 122 1/4
 SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL 51
 ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET 41 REASON Shoe Joint

RECEIVED
 STATE CONSERVATION DIVISION
 JUL 15 1991
 CONSERVATION DIVISION
 Wichita, Kansas

AND
TICKET CONTINUATION

FOR INVOICE AND
TICKET NO.

05153K

ORIGINAL

A Division of Halliburton Company

DATE 5/4/91	CUSTOMER ORDER NO.	WELL NO. AND FARM	COUNTY Greeley	STATE
CHARGE TO Beard Oil Company		OWNER Beard Oil Company	CONTRACTOR Murford Drlg. Co.	No. B 945620
MAILING ADDRESS		DELIVERED FROM Oberlin, KS	LOCATION CODE 25529	PREPARED BY Lyle
CITY & STATE		DELIVERED TO S/Sharon Springs, KS	TRUCK NO.	RECEIVED BY Jack Moore

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	200	sk			6.75	1,350.00
509-968		1	B	Salt Granulated	1720	lb			.10	172.00
508-291		1	B	Gilsonite	1400	lb			.35	490.00
508-127		1	B	Cal-Seal <i>1000s - 600 ft #1</i>	10	sk			19.70	197.00
507-775		1	B	Halad-322	142	lb			6.15	873.30
507-970		1	B	D-Air-1	48	lb			2.55	122.40
507-210		1	B	Flocele	50	lb			1.30	65.00
504-316		1	B	Halliburton Light Cement	300	sk			6.10	1,830.00
508-291		1	B	Gilsonite	2100	lb			.35	735.00
507-210		1	B	Flocele	75	lb			1.30	97.50
509-554		1	B	Halliburton Gel (On Side)	4	sk			13.75	55.00
<p>THIS IS NOT AN INVOICE</p> <p>RECEIVED STATE CORPORATION COMMISSION JUL 15 1991 CONSERVATION DIVISION Wichita, Kansas</p>										
		Returned Mileage Charge	TOTAL WEIGHT		LOADED MILES		TON MILES			
		SERVICE CHARGE ON MATERIALS RETURNED					CU. FEET			
500-207		1	B	SERVICE CHARGE			603.		1.15	693.45
500-306		1	B	Mileage Charge	52,935	80	2117.40	.80	1,693.92	
No. B 945620		CARRY FORWARD TO INVOICE					SUB-TOTAL		8,343.57	

CUSTOMER