

ORIGINAL

SIDE ONE

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

API NO. 15- 033-20812-0000  
County Comanche  
NE SW SE Sec. 10 Twp. 35S Rge. 16  East West

Operator: License # 03080  
Name: Jack Exploration, Inc.  
Address P. O. Box 1279  
  
City/State/Zip Sulphur, OK 73086

1214 Ft. North from Southeast Corner of Section  
1832 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

Purchaser: \_\_\_\_\_  
Operator Contact Person: James R. Jack  
Phone (405 ) 622-2310

Lease Name Murdock Well # 1-10  
Field Name WC

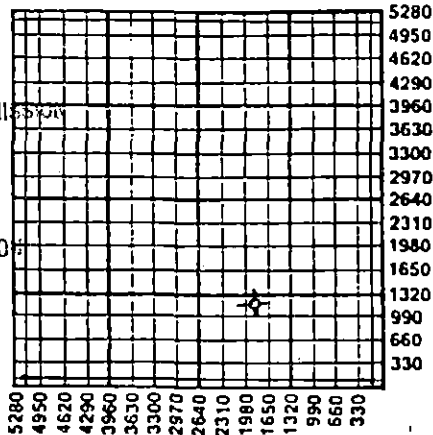
Contractor: Name: Eagle Drilling  
License: 5380

Producing Formation None  
Elevation: Ground 1868 KB 1881  
Total Depth 5498 P8TD \_\_\_\_\_

Wellsite Geologist: Mike Pollok

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

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STATE CORPORATION COMMISSION  
APR 10 1991  
4-10-91  
CONSERVATION DIVISION  
Wichita, Kansas



If CWMO: old well info as follows:  
Operator: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at 633 @ 633 Feet

Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Multiple Stage Cementing Collar Used?  Yes  No

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

If yes, show depth set \_\_\_\_\_ Feet

2/27/91 3/7/91 3/7/91  
Spud Date Date Reached TD Completion Date

If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ 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 James R. Jack  
Title President Date 4/8/91

Subscribed and sworn to before me this 8th day of April, 19 91.

Notary Public Wanda M. Stephenson

Date Commission Expires September 12, 1993

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)

**SIDE TWO**

Operator Name Jack Exploration, Inc. Lease Name Murdock Well # 1-10  
 Sec. 10 Twp. 35S Rge. 16  East  West  
 County Comanche

**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 4858-4883 If 30", ISI 66", FE 60",  
 FSI 129" Strong Blow to flow periods; Rec 800' Gas  
 in pipe, 70' mud, 120' my w , chlorides 74,000 PPM;  
 IHP 2352. IFP 85#, ISIBHP 1648#, FFP 107#, FSIBHP  
 1739#

Formation Description		
	<input type="checkbox"/> Log	<input type="checkbox"/> Sample
Name	Top	Bottom
Top Penn	3394	
Base Heebner Sh		4374
Lansing-KC	4577	
Stark Sh	4968	
Cherokee Sh	5236	
Miss Ls.	5312	

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
Conductor	30'	20"		80	Grout	80	Grout
Surf Pipe	12 1/4"	8 5/8"	23#	633		1070	Class H.
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

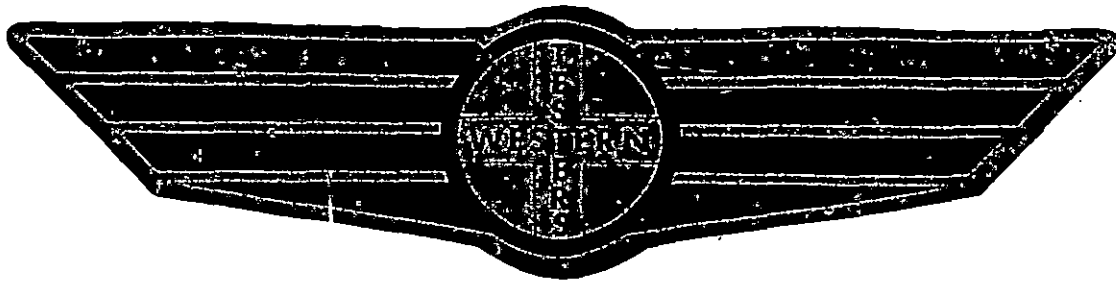
METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

ORIGINAL

# FORMATION TEST REPORT

COMPANY JACK EXPLORATION, INC. LEASE & WELL NO. MURDOCK #1-10 SEC. 10 TWP. 35S RGE. 16W TEST NO. 2 DATE 3/6/91



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800 - 688 - 7021

RECEIVED  
STATE CORPORATION COMMISSION

APR 10 1991

CONSERVATION DIVISION  
Wichita, Kansas

# ORIGINAL

## WESTERN TESTING CO. INC. SUBSURFACE PRESSURE SURVEY

DATE : 3/6/91 TICKET : 16796  
CUSTOMER : JACK EXPLORATION INC. LEASE : MURDOCK  
WELL : 1-10 TEST: 2 GEOLOGIST : POLLOK  
ELEVATION : 1881 KB FORMATION : MISSISSIPPI  
SECTION : 10 TOWNSHIP : 35S  
RANGE : 16W COUNTY : COMANCHE STATE : KANSAS  
GAUGE SN# : 13552 RANGE : 4050 CLOCK : 12

INTERVAL FROM : 5296 TO : 5357 TOTAL DEPTH : 5357

DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 5296 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : EAGLE DRILLING  
MUD TYPE : CHEMICAL VISCOSITY : 45  
WEIGHT : 9.2 WATER LOSS (CC) : 9.1  
CHLORIDES (PPM) : 7500  
JARS-MAKE : WTC SERIAL NUMBER : 420  
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 30 FT I.D. inch : 2.25  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 5243 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 23 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 61 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5FH

BLOW COMMENT #1 : STRONG BLOW BOTH FLOW PERIODS.  
BLOW COMMENT #2 : NO GAS TO SURFACE.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

# ORIGINAL

RECOVERED : 25 FT OF: MUD

Total Barrels Fluid. = 0.12  
Total Fluid Prod Rate = 3.93 BFPD  
Indicated Wtr Rate = 0.39 BWPD

REMARK 1 :  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 12:15 PM                      TIME STARTED OFF BOTTOM : 4:00 PM  
WELL TEMPERATURE : 120  
INITIAL HYDROSTATIC PRESSURE                      (A) 2641  
INITIAL FLOW PERIOD                      MIN: 30                      (B) 50                      PSI TO (C) : 50  
INITIAL CLOSED IN PERIOD                      MIN: 57                      (D) 492  
FINAL FLOW PERIOD                      MIN: 15                      (E) 56                      PSI TO (F) : 46  
FINAL CLOSED IN PERIOD                      MIN: 117                      (G) 1058  
FINAL HYDROSTATIC PRESSURE                      (H) 2574

ORIGINAL -

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
-----

COMPANY : JACK EXPLORATION INC.  
RIG : COMANCHE-KANSAS  
FIELD : MURDOCK  
WELL : 1-10  
DATE : 3/6/91  
GAUGE NO : 13552

OPERATIONAL COMMENTS

# ORIGINAL

COMPANY : JACK EXPLORATION INC.  
 WELL : 1-10  
 GAUGE # : 13552  
 DATE : 6/ 3/91

FIELD : MURDOCK  
 JOB # : 16796  
 DEPTH : 5357  
 TEST :

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	12:15: 0	0.000	50.000	120.00	0.000
3	12:19:59	0.083	50.000	120.00	0.000
4	12:25: 0	0.167	50.000	120.00	0.000
5	12:30: 0	0.250	50.000	120.00	0.000
6	12:34:59	0.333	50.000	120.00	0.000
7	12:40: 0	0.417	50.000	120.00	0.000
8	12:45: 0	0.500	50.000	120.00	0.000
INITIAL SHUT-IN PERIOD					
9	12:48: 0	0.550	61.000	120.00	11.000
10	12:51: 0	0.600	78.000	120.00	17.000
11	12:54: 0	0.650	96.000	120.00	18.000
12	12:57: 0	0.700	120.000	120.00	24.000
13	13: 0: 0	0.750	144.000	120.00	24.000
14	13: 3: 0	0.800	168.000	120.00	24.000
15	13: 6: 0	0.850	191.000	120.00	23.000
16	13: 9: 0	0.900	215.000	120.00	24.000
17	13:12: 0	0.950	238.000	120.00	23.000
18	13:15: 0	1.000	260.000	120.00	22.000
19	13:18: 0	1.050	285.000	120.00	25.000
20	13:21: 0	1.100	312.000	120.00	27.000
21	13:24: 0	1.150	335.000	120.00	23.000
22	13:27: 0	1.200	361.000	120.00	26.000
23	13:30: 0	1.250	392.000	120.00	31.000
24	13:33: 0	1.300	417.000	120.00	25.000
25	13:36: 0	1.350	444.000	120.00	27.000
26	13:39: 0	1.400	469.000	120.00	25.000
27	13:42: 0	1.450	492.000	120.00	23.000
FINAL FLOW PERIOD					
28	13:43: 0	1.467	56.000	120.00	-436.000
29	13:46:59	1.533	56.000	120.00	0.000
30	13:52: 0	1.617	48.000	120.00	-8.000
31	13:57: 0	1.700	46.000	120.00	-2.000
FINAL SHUT-IN PERIOD					
32	14: 0: 0	1.750	61.000	120.00	15.000
33	14: 3: 0	1.800	85.000	120.00	24.000
34	14: 6: 0	1.850	113.000	120.00	28.000
35	14: 9: 0	1.900	143.000	120.00	30.000
36	14:12: 0	1.950	172.000	120.00	29.000
37	14:15: 0	2.000	202.000	120.00	30.000
38	14:18: 0	2.050	230.000	120.00	28.000
39	14:21: 0	2.100	259.000	120.00	29.000
40	14:24: 0	2.150	286.000	120.00	27.000
41	14:27: 0	2.200	314.000	120.00	28.000
42	14:30: 0	2.250	342.000	120.00	28.000
43	14:33: 0	2.300	373.000	120.00	31.000
44	14:36: 0	2.350	403.000	120.00	30.000
45	14:39: 0	2.400	430.000	120.00	27.000
46	14:42: 0	2.450	461.000	120.00	31.000
47	14:45: 0	2.500	488.000	120.00	27.000
48	14:48: 0	2.550	512.000	120.00	24.000

ORIGINAL

COMPANY : JACK EXPLORATION INC.  
WELL : 1-10  
GAUGE # : 13552  
DATE : 6/ 3/91

FIELD : MURDOCK  
JOB # : 16796  
DEPTH : 5357  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	14:51: 0	2.600	544.000	120.00	32.000
50	14:54: 0	2.650	574.000	120.00	30.000
51	14:57: 0	2.700	601.000	120.00	27.000
52	15: 0: 0	2.750	632.000	120.00	31.000
53	15: 3: 0	2.800	657.000	120.00	25.000
54	15: 6: 0	2.850	685.000	120.00	28.000
55	15: 9: 0	2.900	711.000	120.00	26.000
56	15:12: 0	2.950	737.000	120.00	26.000
57	15:15: 0	3.000	765.000	120.00	28.000
58	15:18: 0	3.050	785.000	120.00	20.000
59	15:21: 0	3.100	810.000	120.00	25.000
60	15:24: 0	3.150	836.000	120.00	26.000
61	15:27: 0	3.200	857.000	120.00	21.000
62	15:30: 0	3.250	882.000	120.00	25.000
63	15:33: 0	3.300	907.000	120.00	25.000
64	15:36: 0	3.350	929.000	120.00	22.000
65	15:39: 0	3.400	953.000	120.00	24.000
66	15:42: 0	3.450	974.000	120.00	21.000
67	15:45: 0	3.500	996.000	120.00	22.000
68	15:48: 0	3.550	1016.000	120.00	20.000
69	15:51: 0	3.600	1035.000	120.00	19.000
70	15:54: 0	3.650	1058.000	120.00	23.000

WESTERN TESTING CO. INC.





P.O. Box 4442  
Houston, Tx. 77210

# SERVICE OPERATIONS CONTRACT

TERMS NET 30 DAYS FROM DATE OF CONTRACT

REMIT TO: P.O. Box 100806, Houston, Tx. 77212

ORIGINAL

DATE 3-7-91	SERVICE CONTRACT NO. 636449
NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>	WELL TYPE 0
JOB NUMBER 500970	LEASE NAME & FEDERAL OFFSHORE/LEASE NO. Murdock
WELL NO. 7-10	COUNTY/PARISH Comanche
CODE 1407	STATE ks
CITY CODE	MTA CODE
FIELD NAME	WELL OWNER Jack Exploration

CUSTOMER ACCOUNT NO.	DIST. NAME Medicine Lodge
CUSTOMER Jack Exploration, Inc.	DIST. NUMBER 584
ADDRESS P.O. Box 60	ZIP 73086
CITY Sulphur	STATE OK
AUTHORIZED BY: (Please Print)	ORDER NO. 0060

STAGE NO.	JOB CODE 0115	WORKING DEPTH 920 FT
TOTAL PREV. GALS.	1 SURFACE <input type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>	SIZE HOLE 7 7/8
TOTAL MEAS. DEPTH FT.	SIZE & WT. CASING	DEPTH
SIZE & WT. DRILL PIPE OR TUBING 4 1/2 16.60	DEPTH 920	FT
AVG. PSI. 100	MAX. PSI. 200	PACKER DEPTH
MAX. BPM 5	FLUID PUMPED	

PUMPING EQUIPMENT	TIME (A OR P)	DATE
TRUCK CALLED	08:00 P	0307 1991
ARRIVED AT JOB	09:30 P	0310 1991
START OPERATION	10:00 P	0310 1991
FINISH OPERATION		
TIME RELEASED		
MILES FROM STATION TO WELL 50	SALESMAN NUMBER	

CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT

REMARKS

RECEIVED  
STATE CORPORATION COMMISSION  
MAR 25 1001

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered)  
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

SIGNED: Edward L. Woods  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
10110211016	1	500 to 1000 ft	640.00	E	640.00
102110191015	50	Pump truck mileage	2.35	E	117.50
104110151015	81	Class A	6.85	Q	554.85
10411510118	54	Fly Ash	2.91	Q	157.14
104121011415	700	BJ Gel	.14	L	98.00
108191010101	147	Mixing Service	1.10	Q	161.70
10914101101	310	Grain Bulk	.75	L	232.50
		Book Price			1961.69
		Less 90			294.25
					1667.44

SERVICE REPRESENTATIVE M. E. M... THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Edward L. Woods  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CHECK IF CONTINUATION IS USED  
CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.





P.O. Box 4442  
Houston, Texas 77001

# CEMENTING LOG

STAGE NO. \_\_\_\_\_

## ORIGINAL

Date 2-7-91 District Medina Lodge Ticket No. 636449  
 Company Jack Exp Rig \_\_\_\_\_  
 Lease Mudrock Well No. 1-10  
 County Comanche State Ks  
 Location N/2 SW SW 10-35 16w Field \_\_\_\_\_

CEMENT-DATA:  
 Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size \_\_\_\_\_ Type \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_

Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Pump Trucks Used \_\_\_\_\_

Bulk Equip. \_\_\_\_\_

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_

Open Hole: Size \_\_\_\_\_ T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

Shoe. Type \_\_\_\_\_ Depth \_\_\_\_\_

### CAPACITY FACTORS:

Casing: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_

Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Stage Collars \_\_\_\_\_

Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Special Equip. \_\_\_\_\_

Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Disp. Fluid Type \_\_\_\_\_ Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PPG

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE Edward L. Plouffe

CEMENTER Max E. Wolf

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min	
						50 Sks 40/60 6 1/2 Cpl at 195 to 920
						50 Sks 40/60 6 1/2 Cpl at 435 to 660
						10 Sks 40/60 6 1/2 Cpl at Surface
						15 Sks 40/60 6 1/2 Cpl in R. + hot.
						10 Sks 40/60 6 1/2 Cpl in Mousehole
						Job finish 1:35 AM 3-8-91

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 STATE CORPORATION COMMISSION

MAR 25 1991

COMMISSION DIVISION

FINAL DISP. PRESS: \_\_\_\_\_ PSI BUMP PLUG TO \_\_\_\_\_ PSI BLEEDBACK \_\_\_\_\_ BBLs. THANK YOU

JOB NUMBER <b>500970</b>	CONTRACT NUMBER <b>636449</b>	DATE <b>3-27-91</b>	DISTRICT NAME <b>Medicine Lodge</b>
-----------------------------	----------------------------------	------------------------	--

CUSTOMER NAME AND ADDRESS: <b>Jack Exploration</b>	DIRECT SHIPMENT FROM VENDOR NAME
---	-------------------------------------

Item No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED
1	410505	Class H	Q	51		
2	41518	Fly ash } Front pod	Q	34		
3	42145	Gal	L	440		
4						
5						
6	410505	Class H	Q	30		
7	41518	Fly ash } Back pod	Q	20		
8	42145	Gal	L	250		
9						
10						
11						
12						
13						
14						
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16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						

**RECEIVED**  
 STATE COMMISSION  
**MAR 25 1991**  
 CO'S PVA, DISTRICT  
 - MEDICINE LODGE

COPY 1 - DISTRICT COPY COPY 2 - CUSTOMER COPY COPY 3 - HOUSTON	LOADED BY: <u>Mat E. Wolf</u> PRINTED <u>Mat E. Wolf</u> SIGNATURE	CUSTOMER: <u>David L. Woods</u> SIGNATURE DATE: _____
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P.O. Box 4442  
Houston, Tx. 77210

ORIGINAL

SERVICE OPERATIONS CONTRACT  
TERMS NET 30 DAYS FROM DATE OF CONTRACT

REMIT TO: P.O. Box 100806, Houston, Tx. 77212

DATE 2-26-91 SERVICE CONTRACT NO. 636548

CUSTOMER ACCOUNT NO.	DIST NAME <u>MEU 6006F</u>	NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>	WELL TYPE	JOB NUMBER <u>500950</u>
CUSTOMER <u>JACK EXPLORATION</u>	DIST NUMBER <u>534</u>	WELL NO. <u>1-10</u>	LEASE NAME & FEDERAL OFFSHORE LEASE NO. <u>MURDOCK</u>	
ADDRESS <u>P.O. Box 60</u>	CITY <u>SULPHUR</u> STATE <u>OKLA.</u> ZIP	COUNTY/PARISH <u>COMANCHE</u>	CODE <u>1407</u>	STATE <u>Ks</u> CODE <u>14</u>
AUTHORIZED BY: <u>H.O. STEINMETZ</u> (Please Print)	ORDER NO.	FIELD NAME	CITY CODE	
STAGE NO.	JOB CODE <u>0100-CEMENT</u> WORKING DEPTH <u>633</u> FT	PUMPING EQUIPMENT		DATE
TOTAL PREV. GALS.	1 SURFACE <input checked="" type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>	TRUCK CALLED	<u>1:00 P</u> <u>02/26/91</u>	
TOTAL MEAS. DEPTH FT.	SIZE HOLE <u>12 1/4"</u> DEPTH <u>648</u> FT	ARRIVED AT JOB	<u>9:30 P</u> <u>02/26/91</u>	
AVG. PSI. <u>750</u> MAX. PSI.	SIZE & WT. CASING <u>3 7/8" 24#</u> DEPTH <u>633</u> FT	START OPERATION	<u>12:20 A</u> <u>02/27/91</u>	
MAX. BPM <u>6.5</u>	SIZE & WT. DRILL PIPE OR TUBING <u>4 1/2" 16.6#</u> DEPTH <u>648</u> FT	FINISH OPERATION	<u>4:00 A</u> <u>02/27/91</u>	
S/S EMPLOYEE NUMBER <u>666454</u>	PACKER DEPTH	TIME RELEASED	<u>4:30 A</u>	
REMARKS	FLUID PUMPED	MILES FROM STATION TO WELL <u>54</u>	SALESMAN NUMBER	
CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT				

RECEIVED  
STATE CORPORATION COMMISSION  
MAR 25 1991  
CORPORATION DIVISION  
Wichita, Kansas

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered)  
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK	<u>0.1</u>	SIGNED: <u>X K.O. Steinmetz</u> (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)				
PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION	
1011010306	1	501' - 1,000' PUMP HOSE	630.00	F	630 00	
1011091005	52	MILEAGE ONE WAY	2.35	F	122 20	
104110505	369	CLASS H	6.85	Q	2527 65	
1041120113	91	FLYASH	2.91	Q	264 81	
10420145	1733	LT 6CL	.14	L	242 62	
1041131049	1242	A-7P	.46	L	571 32	
104221003	65	PELLOFLAKE	1.30	L	84 50	
103301001	511	MIXING SERVICE	1.10	Q	562 10	
109401101	1154	DELAYAGE 22# S2	.75	L	865 50	
104210636	1	3 7/8" TOP RUBBER PEG	100.00	F	100 00	

SERVICE REPRESENTATIVE KEVIN BUNGART THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X K.O. Steinmetz  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CHECK IF CONTINUATION IS USED  
CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.



ORIGINAL

CONTRACT NO. 636543

DATE OF JOB	MM DD YY	DISTRICT	DIST. NO.	AUTHORIZED BY
	02 26 91	Med. Care	534	K.O. STEINERT
CUSTOMER JACK EXPLORATION				

PRICE BOOK	PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
0,1	10409600	1	37/8" REGULAR GUIDE SHOE-W	222.00	F	220 00
	10409600	1	37/8" AFU INSERT - W	256.00	F	256 00
	10409600	1	37/8" BASKET - B	193.00	F	193 00
	10409600	1	37/8" CENTRALIZER - B	60.00	E	60 00
			BOOK PRICE		\$	6704 70
			LESS			1206 33
			SUBTOTAL		\$	5497 37
	10107891		FUEL SURCHARGE			137 45
			TOTAL		\$	5635 30

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MAR 25 1991

COMMERCIAL DIVISION  
Wichita, Kansas

SERVICE REPRESENTATIVE: <i>Kevin Brunardot</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>X K.O. Steinert</i>
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CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.

Date 2/26/91 District Med. Coode Ticket No. 676549  
 Company Jack Exploration Rig EAGLE #1  
 Lease WURDOCK Well No. 1-10  
 County COMANCHE State KANSAS  
 Location \_\_\_\_\_ Field \_\_\_\_\_  
Wardner W, IN

CEMENT DATA: 5 BBS FRESH H<sub>2</sub>O  
 Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA: PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 3 5/8" Type \_\_\_\_\_ Weight 24# Collar ST-C

LEAD: Pump Time \_\_\_\_\_ hrs. Type 35:65:6  
3 3/4" A-7P, 1/4" # (GULF LAKE) Excess \_\_\_\_\_  
 Amt. 100 Sks Yield 1.53 ft<sup>3</sup>/sk Density 12.8 PPG

Burst  
Collaps  
 Casing Depths: Top KB Bottom 632'  
20" GL-20'

TAIL: Pump Time \_\_\_\_\_ hrs. Type 11A-H  
3 3/4" A-7P, 2 1/2" Cel Excess \_\_\_\_\_  
 Amt. 200 Sks Yield 1.54 ft<sup>3</sup>/sk Density 12.6 PPG  
 WATER: Lead 73 gals/sk Tail 65 gals/sk Total \_\_\_\_\_ Bbls.

Pump Trucks Used 2902-6491 WLOY COLL  
 Bulk Equip 2959-9766 FURTELL HANT

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XA  
 Open Hole: Size 12 1/4" T.D. 648 ft P.B. to \_\_\_\_\_ ft.

Float Equip. Manufacturer WEATHER FORD  
 Shoe Type CEMENT Depth 1.32

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 0637 Lin. ft./Bbl. 15.7  
 Open Holes: Bbls/Lin. ft. 1453 Lin. ft./Bbl. 6.85  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. 0725 Lin. ft./Bbl. 12.6  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Float Type DEL FLAPPER Depth S91  
 Centralizers: Quantity 1 Plugs Top PIBBEX Btm \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip BASKET W 120'  
 Disp. Fluid Type FRESH H<sub>2</sub>O Amt. 37 1/2 Bbls. Weight 2.34 PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE A. O. STEINERT

CEMENTER KEVIN LANEWITZ

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min	
						ON LOCATION, RIG UP
						STATE COMMISSION
						JOB & SAFETY MEETING
						MAR 25 1991
						DIVISION
						NO RETURNS
						RIG UP TO CEMENT PUMP
	150			5	5	START FRESH H <sub>2</sub> O
	150		5	5	5	FRESH H <sub>2</sub> O IN - START LEAD
	200		33	28	6	LEAD IN - START TAIL
	200		30 3/4	47 3/4	6 1/2	TAIL IN - STOP PUMP
						CHANGE VALVES - RELEASE PUG
	50				4	START DISPLACEMENT
	200		115 3/4	35	3	SLOW RATE
	450		113 1/4	2 1/2	3	BUMP PUG
12:45						RELEASE PUG & FLOAT HOLDS!
	500				2 1/2	RUN 120' 1" TUBING START FRESH H <sub>2</sub> O
	750				2 1/2	FRESH H <sub>2</sub> O IN - START 35:65:6 - 75 SK
					2 1/2	STOP PUMPS - WAIT 30 MINUTES
	250					PUMP 35 SK 35:65:6 + FILL UP TO 50'
						WAIT ON MOLE CEMENT
4:00	300					TOP OFF WITH 60 SK H, 2 1/4" A-7P

FINAL DISP. PRESS: 200 PSI BUMP PLUG TO 450 PSI BLEEDBACK \_\_\_\_\_ BBLs.

THANK YOU

Form No. SR 0502 (Rev. 3/90)  
 Note: Must accompany job ticket.



B.J. TITAN SERVICES  
LOAD SHEET

ORIGINAL

VOB NUMBER 500950	CONTRACT NUMBER 636543	DATE 2-26-91	DISTRICT NAME Med. Lodge, Ks.
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CUSTOMER NAME AND ADDRESS Jack Exploration P.O. Box 60 Sulphur, Oklahoma	DIRECT SHIPMENT FROM VENDOR NAME
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Item No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED
1		FRONT CAN				
2	410505	Class H	Q	209		100
3	415048	Fly ATP	L	564		0
4	420145	BJ Gel	L	376		0
5						
6						
7						
8						
9		REAR CAN				
10	410505	Class H	Q	269		100
11	415018	Fly Ash	Q	91		0
12	415049	ATP	L	678		0
13	422008	Cells - Flake	L	65		0
14	420145	BJ Gel	L	1357		0
15	430636	3 5/8" TOP LIGN PLUG	E	1		0
16						
17						
18						
19						
20					RECEIVED STATE CORPORATION COMMISSION	
21					MAR 25 1991	
22					CONSERVATION DIVISION Wichita, Kansas	
23						
24						
25						
26						
27						

COPY 1 - DISTRICT COPY COPY 2 - CUSTOMER COPY COPY 3 - HOUSTON	LOADED BY: <u>J. Kelley</u>	CUSTOMER: <u>K.O. Stein</u>
	<u>Kevin Smith</u>	SIGNATURE
	SIGNATURE	DATE: <u>2/26/91</u>