

# ORIGINAL

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 # 5420 & 3007  
Name: White & Ellis Drilling, Inc. and MAKO Exploration  
Address P. O. Box 48848

City/State/Zip Wichita, KS 67201-8848  
Purchaser: N/A

Operator Contact Person: Michael L. Considine  
Phone (316) 263-1102

Contractor: Name: White & Ellis Drlg., Inc.  
License: 5420

Wellsite Geologist: Joe Baker

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

If **OWMO**: old well info as follows:  
Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:  
 Mud Rotary  Air Rotary  Cable

8-22-91 8-28-91 9-9-91  
Spud Date Date Reached TD Completion Date

API NO. 15- 109-20,516-0000

County Logan ✓

NE SE SW Sec. 4 Twp. 11S Rge. 33  East West

990' ✓ Ft. North from Southeast Corner of Section

2970' ✓ Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

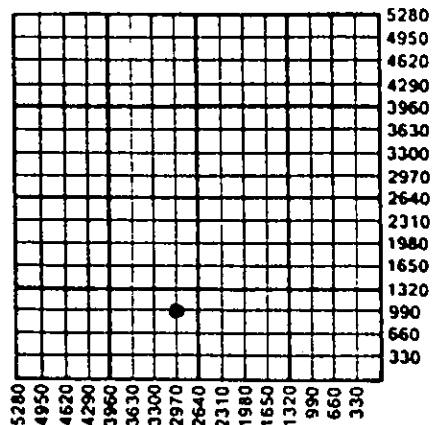
Lease Name Nollette ✓ Well # 2-A

Field Name Unnamed

Producing Formation N/A

Elevation: Ground 3136' KB 3141'

Total Depth 4670' PBTD 4500'



9-19-91

Amount of Surface Pipe Set and Cemented at 379 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 2612' Feet

If Alternate II completion, cement circulated from 2612'

feet depth to surface w/ 575 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 Michael L. Considine  
Title Sec.-Treas. Date 9-17-91

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

Notary Public Carolyn J. Tjaden  
Date Commission Expires \_\_\_\_\_



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 White & Ellis Drilling, Inc Lease Name Nollette Well # 2-A  
 Sec. 4 Twp. 11S Rge. 33  East County Logan  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: 4286'-4318', 45-45-60-60,  
 Rec. 5' CO, 5' MO (95% oil) and 60  
 WCM (15% water), 22,000 chlorides,  
 IFP 40#-50#, FFP 50#-60#, ISIP  
 477#, FSIP 426#

**Formation Description**

Log  Sample

Name	Top	Bottom
Anhydrite	2620	+ 521
B/Anhydrite	2648	+ 493
Heebner	3945	- 904
Lansing	4085	- 944
Muncie Creek	4229	-1088
"J" Zone	4298	-1157
Stark	4316	-1175
BKC	4375	-1234
Marmaton	4403	-1262
Cherokee	4596	-1455
Johnson	4641	-1500

**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 1/4"	8 5/8"	23#	379'	Common	225	60/40 poz
Production	7 7/8"	5 1/2"	14#	4500'	Common "A"	135	Surefill

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3 SPF	4298' - 4304'	500 gal 15% MCA	
	Non-commercial - will convert	to Cedar Hills disposal	well

**TUBING RECORD** Size Set At Packer At Liner Run  Yes  No

Date of First Production \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

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

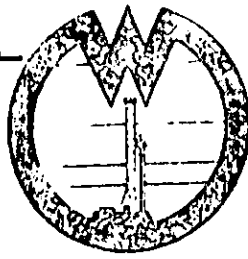
Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)

**METHOD OF COMPLETION**

Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_

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

ORIGINAL



15-109-20516-0000

WHITE

AND ELLIS DRILLING, Inc.

RECEIVED

REGISTRATION COMMISSION

SEP 19 1991

DRILLERS LOG

REGISTRATION COMMISSION  
WICHITA, KANSAS

OPERATOR: White & Ellis Drilling, Inc., P. O. Box 48848,  
Wichita, KS 67201-8848  
CONTRACTOR: White & Ellis Drilling, Inc., P. O. Box 48848,  
Wichita, Kansas 67201-8848

Lease Name Nollette Well No. 2-A  
Sec. 4 T. 11S R. 33W Spot NE SE SW  
County Logan State Kansas Elev. \_\_\_\_\_

Casing Record:

Surface: 8 5/8" @ 386' with 220 sx.  
Production: 5 1/2" @ 4500' with 135 sx.

Type Well: Oil Well Total Depth 4670'  
Drilling Commenced 8-22-91 Drilling Completed 8-28-91

Formation	From	To	Tops	
Cellar	0	5	Anhydrite	2623
Shale	5	1185	Kansas City	4195
Shale w/ Sand Streaks	1185	1950	Ft. Scott-	
Shale & Lime	1950	2750	Cherokee-	
Shales	2750	3075	Johnson	4580
Lime & Shales	3075	4670		



P.O. Box 4442  
Houston, Texas

# ORIGINAL CEMENTING LOG

15-109-20516-0000

STAGE NO

Date 8-23-91 District HAYS Ticket No. 627785  
 Company White & Ellis Drilling Inc. Rig White & Ellis  
 Lease Wolfe # A Well No. 2  
 County Lassen State \_\_\_\_\_  
 Location \_\_\_\_\_ Field \_\_\_\_\_

CASING DATA PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2 Type USED Weight 14 Collar \_\_\_\_\_

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

Drill Pipe Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole Size 7 1/2 TD 4670 ft. P.B. to 4471 ft.

CAPACITY FACTORS: 1370

Casing	Bbls/Lin ft	<u>.0244</u>	Lin ft/Bbl	<u>40.98</u>
Open Holes	Bbls/Lin ft	<u>.0602</u>	Lin ft/Bbl	<u>16.3382</u>
Drill Pipe	Bbls/Lin ft	<u>.0145</u>	Lin ft/Bbl	<u>70</u>
Annulus	Bbls/Lin ft	<u>.0309</u>	Lin ft/Bbl	<u>32.1733</u>
	Bbls/Lin ft		Lin ft/Bbl	

Perforations From \_\_\_\_\_ ft to \_\_\_\_\_ ft Amt \_\_\_\_\_

CEMENT DATA  
 Spacer Type: Mud Surge 500 gal  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
11:00 AM Excess \_\_\_\_\_  
 Amt. 135 Skys Yield 1.54 ft<sup>3</sup>/sk Density 15 PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG  
 WATER Lead 7.18 gals/sk Tail \_\_\_\_\_ gals/sk Total 23 Bbls

Pump Trucks Used 46029 - Carl  
 Bulk Equip 2037 Homer

Float Equip Manufacturer BAKON  
 Shoe Type TR PL - ARROW Depth \_\_\_\_\_  
 Float Type AEH "R" Depth \_\_\_\_\_  
 Centralizers Quantity 10 Plugs Top \_\_\_\_\_ Btm \_\_\_\_\_  
 Stage Collars PERT COLLARS - FURN BY COMP.  
 Special Equip \_\_\_\_\_  
 Disp Fluid Type Water Amt 1084 Bbls Weight 6.34 PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE Bob Casper

CEMENTER RIVER LEMAN

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
						<u>PORT collar AT 2650</u>
						<u>pipe set at 4504</u>
						<u>4471</u>
						<u>Shoe pt 33.16</u>
						<u>1000 P ST To open shoe</u>
						<u>RECEIVED</u>
						<u>STATE COMMISSION</u>
			<u>23</u>			<u>SEP 19 1991</u>
						<u>1084</u>
						<u>COMP. DIVISION</u>
						<u>Weight 6.34</u>
						<u>plug plug w/ 109 bbl of water</u>
						<u>plug plug at 1100 P ST.</u>
						<u>float did hold</u>



SERVICE OPERATIONS CONTRACT CONTINUATION

ORIGINAL

CONTRACT NO. 627785

DATE OF JOB	MM DD YY	DISTRICT	DIST. NO.	AUTHORIZED BY
08/21	19/11		583	
CUSTOMER: White & Ellis Pkg Tr				

PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
1011010R1210	44204	Pump Truck Airage	1263.00	E	1263.00
1011010R1015	10	Pump Truck Airage	2.47	mi	24.70
10191105104	135	Common Cement	7.11	Q	959.85
1014218101210	701	Gypsum #10	.23	L	175.23
101411510419	95	Gal Chloride #7P	4.30	L	408.50
101412611415	254	Gel	.14	L	35.56
10141310151210	1	plug	58.00	E	58.00
1014121510410	500	Mud Surveys	1.72	G	860.00
10181101004	135	Handling & Dumping	1.16	Q	156.60
10141019161010	1	Triplex shoe	1516.00	E	1516.00
10141019161010	1	Insert	182.00	E	182.00
10141019161010	10	Centralizers	46.75	E	467.50
10141019161010	-	Stop Ring	16.65	E	-
10141019161010	2	Basket	140.00	E	280.00
10141019161010	1	Baker Lock	22.50	E	22.50
101914101819	64	Hauling 6.9 Tons 10mi	.79	TM	73.76
SubTOTAL					6131.34
less					1226.27
SubTOTAL					4905.07
RECEIVED					
THE CORPORATION COMMISSION					
SEP 19 1991					
PROPERTY DIVISION					

SERVICE REPRESENTATIVE: Bill Leeman	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Ed Keenan
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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.



P.O. Box 4442  
Houston, Tx. 772

CUSTOMER COPY  
**ORIGINAL**

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

15-109-20516-0000  
**SERVICE OPERATIONS CONTRACT**  
TERM: NET 30 DAYS FROM DATE OF CONTRACT

CUSTOMER ACCOUNT NO.		DIST. NAME <i>HAYS</i>		NEW WELL <input type="checkbox"/> WELL TYPE <input checked="" type="checkbox"/>	SERVICE CONTRACT NO. <b>627785</b>
CUSTOMER <i>White &amp; Ellis Drilling, Inc.</i>		DIST. NUMBER <i>583</i>		WELL NO. <i>2</i>	JOB NUMBER <i>1106</i>
ADDRESS <i>P.O. Box 48248</i>		COUNTY/PARISH <i>Logan</i>		LEASE NAME & FEDERAL OFFSHORE LEASE NO. <i>Walle #2 H</i>	CODE <i>51</i>
CITY <i>Wichita</i>		STATE <i>Kan</i>		ZIP <i>67201</i>	STATE CODE <i>Kan</i>
AUTHORIZED BY: (Please Print)		ORDER NO. <i>5045</i>		FIELD NAME	CITY CODE <i>19</i>
STAGE NO.	JOB CODE <i>1106</i>	WORKING DEPTH	FT	PUMPING EQUIPMENT	TIME (A OR P)
TOTAL PREV. GALS.	1 SURFACE <input type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input checked="" type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>			TRUCK CALLED	<i>2:30 P</i>
TOTAL MEAS. DEPTH	SIZE HOLE <i>7 7/8</i>	DEPTH	FT	ARRIVED AT JOB	<i>16:15 P</i>
FT.	SIZE & WT. CASING <i>5 1/2</i>	DEPTH	FT	START OPERATION	
PACKER DEPTH	SIZE & WT. DRILL PIPE OR TUBING	DEPTH	FT	FINISH OPERATION	
AVG PSI.	FLUID PUMPED			TIME RELEASED	
MAX PSI.				MILES FROM STATION TO WELL <i>9.7</i>	SALESMAN NUMBER
CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT					
MAX. BPM <i>6</i>					
S/S EMPLOYEE NUMBER <i>1146953</i>					

REMARKS

**RECEIVED**  
STATE CORPORATION COMMISSION

**SEP 19 1991**

CONSERVATION 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	SIGNED: _____ (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)				
PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

SERVICE REPRESENTATIVE: *Bill R. LeKuan*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Bob Wagner*

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.

ORIGINAL

JOB NUMBER		CONTRACT NUMBER 627785	DATE 8-25-91	DISTRICT NAME Dist 104		
CUSTOMER NAME AND ADDRESS				DIRECT SHIPMENT FROM		
White of John Deere, Inc				VENDOR NAME		
Item No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED
1	4105041	Common Cement "A"	SK	125		
2	420145	Gel	L	254		
3	415047	Cal Chloride	L	75		
4	42320	A-10	L	761		
5	425010	Mul' Sweep	G	500	(500)	
6						
7						
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RECEIVED  
STATE CORPORATION COMMISSION

SEP 19 1991

COMMISSIONER

COPY 1 - DISTRICT CITY COPY 2 - CUSTOMER COPY COPY 3 - HOUSTON	LOADED BY: <u>Homer</u> <small>PRINTED</small>	CUSTOMER: <u>[Signature]</u> <small>SIGNATURE</small>
	<small>SIGNATURE</small>	DATE: <u>8-25-91</u>

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kans

ORIGINAL  
New

15:109:20516:0000

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

No 2608

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

Date	8-22-91	Sec	4	Twp.	11 <sup>s</sup>	Range	33 <sup>w</sup>	Called Out	9:00 A.M.	On Location	12:30 P.M.	Job Start	2:30 P.M.	Finish	3:00 P.M.
Lease	Nollette	Well No.	"A"-2		Location			Monument 1/2 E 3/4 N 1/4 E		County	Logan	State	Ks.		
Contractor	White & Ellis Drilling			Rig #9			Owner			Same					
Type Job	Set Surface Pipe														
Hole Size	12 1/4"			I.D.			387'								
Csg.	9 5/8"			Depth			386'								
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.	15'			Shoe Joint											
Press Max.				Minimum			-								
Meas Line	x			Displace			x								
Perf.															

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To White & Ellis Drilling, Inc  
 Street P. O. Box 48848  
 City Wichita State Ks. 67201-8848

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. Donald A. Dandling #9

### CEMENT

Amount Ordered 220 sks 6 9/16 per 2 bagel, 3 b.c.c.

Consisting of	
Common	132 sks @ 6.10/sk. <u>805.20</u>
Poz. Mix	88 sks @ 2.40/sk. <u>211.20</u>
Gel.	4 sks <u>N/C</u>
Chloride	6 sks @ 21.00/sk. <u>126.00</u>
Quickset	

### Sales Tax

Handling	@ 1.00/sk. (220 sks)	<u>220.00</u>
Mileage	@ 0.44/sk./mi. (10 mi.)	<u>88.00</u>
	(From Oakley)	
	Sub Total	<u>1450.40</u>

### Total

Floating Equipment Thanks

SEP 19 1991

### EQUIPMENT

Pumptrk	No. 191	Cementer	Gary H. Wayne Men
		Helper	
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	#212	Driver	Joe S.
Bulktrk		Driver	

### DEPTH of Job

Reference #	1	Pumptruck-surface	<u>380.00</u>
#	13	mileage @ 2.00/mi.	<u>20.00</u>
		1-8 5/8" wooden plug	<u>42.00</u>
		Sub Total	<u>442.00</u>
		Tax	
		Total	

Remarks: Cement Circulated.





191, 13348 1442  
Houston, Tx. 77210  
REMIT TO P.O. Box 100806, Houston, Tx 77212

ORIGINAL

15-109-20516-0900  
SERVICE OPERATIONS CONTRACT  
TERMS NET 30 DAYS FROM DATE OF CONTRACT

CUSTOMER ACCOUNT NO. <b>51520024</b>		DIST. NAME <b>Dakota</b>		DATE <b>9-6-91</b>	SERVICE CONTRACT NO. <b>609926</b>
CUSTOMER <b>White &amp; Ellis</b>		DIST. NUMBER <b>585</b>		NEW WELL <input type="checkbox"/> OLD WELL <input type="checkbox"/>	JOB NUMBER
ADDRESS <b>P.O. Box 1586</b>		LEASE NAME & REGION <b>Nolletts</b>		OFFSHORE LEASE NO.	
CITY <b>Great Bend</b> STATE <b>KS</b> ZIP <b>67530</b>		COUNTY/PARISH <b>Logan</b>	CODE <b>14AB</b>	STATE <b>KS</b>	CODE <b>14AE</b>
AUTHORIZED BY <b>Russell Britz</b>		ORDER NO.	WELL NAME	CITY CODE	
STAGE NO.	OB CODE <b>100</b>	WORKING DEPTH	FT.	PUMPING EQUIPMENT	TIME & ON/OFF
TOTAL PREV. SALES	<input type="checkbox"/> SURFACE <input type="checkbox"/> INTERMEDIATE <input type="checkbox"/> <input checked="" type="checkbox"/> PRODUCTION <input type="checkbox"/> REMEDIAL			TRUCK CALLED	<b>9:00 A</b> <b>9-6-91</b>
TOTAL TRASS DEPTH	SIZE HOLE	DEPTH	FT.	ARRIVED AT JOB	<b>9:45 A</b> <b>9-6-91</b>
	SIZE OF CASING <b>5 1/2</b>	DEPTH <b>13.5</b>	FT.	START OPERATION	<b>10:25 A</b> <b>9-6-91</b>
	SIZE OF DRILL PIPE OR TUBING <b>2 7/8</b>	DEPTH	FT.	END OPERATION	<b>11:30 A</b> <b>9-6-91</b>
	PISTON DEPTH	FLUID PUMPER		TIME RELEASED	<b>11:45 am</b> <b>9-6-91</b>
				SALES MAN NUMBER	
MAX RPM	<b>10457</b>	EMPLOYEES ON JOB (EMPLOYEE NUMBERS)			
S/S EMPLOYEE NUMBER	<b>6459</b>	<b>Terry Ross</b>			
	<b>2752</b>				
	<b>272</b>				
	<b>6455</b>				
	<b>6458</b>				
	<b>60-9262</b>				

PRICE BOOK REF	QTY	PART NO	CITY	QTY	PART NO	CITY
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RECEIVED  
STATE CORPORATION COMMISSION

SEP 19 1991

CONSERVATION DIVISION  
Wichita, Kansas

CONTRACT CONDITIONS: This contract must be signed by the purchaser of the material or merchandise (not vendor). The undersigned is authorized to act as a contractor or agent of the purchaser. In such cases, the undersigned accepts and assumes full responsibility for this contract for services, materials, products, and/or supplies. It is the policy of and only those terms and conditions appearing on the front and back of this contract shall be binding. Any other conditions shall become a part of this contract without the written consent of an officer of BU SERVICES.

PRICE BOOK **01**  
Per **Russell Bright**  
SIGNED

10	10.10.2.1.14	1	Price of Job	1095.00	1095.00
2	10.11.0.9.0.0.5	9	PTM	2.42	22.23
3	10.4.1.0.5.0.4	374	Class A	7.11	2659.14
4	10.4.1.5.0.1.8	201	Poz-mix	3.81	765.81
5	10.4.2.0.1.4.5	3100	Gal	.15	465.00
6	10.8.8.0.0.0.1	575	Dryage	1.16	667.00
7	10.9.4.0.1.0.1	239.4	Per Ton Mile 26.6 Tons	.79	189.13
8					5863.31
9			Disc.		1172.66
10					4690.65

SERVICE REPRESENTATIVE **Wm Fitzgerald**  
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY **Russell Bright**  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

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

15-109-20516-0000

# TITAN SERVICES

P.O. BOX 4442 HOUSTON, TX 77210

# CEMENTING LOG

STAGE NO

Date 9-6-91 District Oakley Ticket No 609926  
 Agency W.H. Lee & Ellis Rig 40E Well Service  
 ISO Nollette Well No 2  
 Jobby Logan State KS  
 Location W-8N-2E-N-10 Field

SING DATA PTA  Squeeze   
 Face  Intermediate  Production  Liner   
 Casing Size \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_

Pump Trucks Used 6459  
 Bulk Equip 273 & 2752

Pipe Size \_\_\_\_\_ Weight \_\_\_\_\_ Collar \_\_\_\_\_  
 in Hole Size \_\_\_\_\_ ID \_\_\_\_\_ in PB to \_\_\_\_\_

CAPACITY FACTORS  
 Ring Bbls Lin ft \_\_\_\_\_ Lin ft/Bbl \_\_\_\_\_  
 in Holes Bbls Lin ft \_\_\_\_\_ Lin ft/Bbl \_\_\_\_\_  
 Pipe Bbls Lin ft \_\_\_\_\_ Lin ft/Bbl \_\_\_\_\_  
 Tubing Bbls Lin ft \_\_\_\_\_ Lin ft/Bbl \_\_\_\_\_  
 Annular Space from \_\_\_\_\_ ft to \_\_\_\_\_ ft Ann \_\_\_\_\_

CEMENT DATA  
 Spacer Tube \_\_\_\_\_  
 Amt \_\_\_\_\_ Sls Yield \_\_\_\_\_ H<sub>2</sub>O Density \_\_\_\_\_ PPG \_\_\_\_\_  
 LEAD Pump Time \_\_\_\_\_ Hrs Type 65/35/6  
 Amt 575 Sls Yield 1.34 H<sub>2</sub>O Density 12.7 PPG  
 TAIL Pump Time \_\_\_\_\_ Hrs Type \_\_\_\_\_  
 Amt \_\_\_\_\_ Sls Yield \_\_\_\_\_ H<sub>2</sub>O Density \_\_\_\_\_ PPG  
 WATER Lead 7.2 gal/min Total 49 Bbls  
 Pump Trucks Used 6459  
 Bulk Equip 273 & 2752  
 Float Equip Manufacture \_\_\_\_\_  
 Shoe Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Foot Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers Quantity \_\_\_\_\_ Pumps Top \_\_\_\_\_  
 Stage In Mts \_\_\_\_\_  
 Speed Equip \_\_\_\_\_  
 Casing Fluid Type \_\_\_\_\_ Amt \_\_\_\_\_ Bbls Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_

COMPANY REPRESENTATIVE

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULAR	TOTAL FLUID	Pumps Per Time Period	RATE BBL/M	
9:45	ann					On location Project safety meeting
10:15	ann		148 Bbls Slurry			Pressure Tbs to 500 PSI Open Port Collar Break Circulation Mix Cement
10:25	ann					Displace out Tbs & Close Port Collar Run 13+ Tbs & Washout Slurryway Pressure to 1000 PSI Job finished
11:30	ann					Cement Dil Circulate to Pit

RECEIVED  
 STATE CORPORATION COMMISSION  
 SEP 19 1991  
 CONSERVATION DIVISION  
 Wichita, Kansas