

ORIGINAL

RELEASED
CONFIDENTIAL

SIDE ONE

MAY 28 1991

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

Operator: License # 5171
Name: TXO Production Corp
Address 1660 Lincoln Street
Suite 1800
City/State/Zip Denver, CO 80264

Purchaser: _____
Operator Contact Person: Jerry W. Collins
Phone (303) 861-4246

Contractor: Name: Murfin Drilling Co.
License: 6033
Wellsite Geologist: Rich Bacon

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 _____
3-26-90 4-03-90 4-06-90
Spud Date Date Reached TD Completion Date

API NO. 15- 075-20437-0000
County Hamilton FROM CONFIDENTIAL

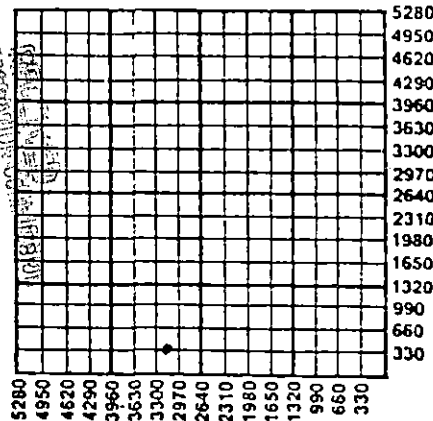
SE SE SW Sec. 4 Twp. 21 Rge. 42 East
330 Ft. North from Southeast Corner of Section
3180 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Wilcoxen Well # 1
Field Name WC

Producing Formation _____
Elevation: Ground 3754' KB 3762'
Total Depth 5423' PBTD _____

CONSERVATION DIVISION
Wichita, Kansas

MAY 7 1990



ACT II
D.E.A.

Amount of Surface Pipe Set and Cemented at 1014 Feet
Multiple Stage Cementing Collar Used? _____ Yes No
If yes, show depth set _____ Feet
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 Jerry W. Collins
Jerry W. Collins
Title Drilg/Prod. Engineer Date 4-06-90
Subscribed and sworn to before me this 3 day of May
1990.
Notary Public Janice A. Parker
Date Commission Expires 11-03-92

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 TXO Production Corp. Lease Name Wilcoxen Well # 1
 Sec. 4 Twp. 21S Rge. 42 East County Hamilton
 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.)

Formation Description		
Name	Top	Bottom
Heebner	4023'	
Lansing	4053'	
Marmaton	4398'	
Cherokee	4691'	
Atoka	4930'	
Morrow	5060'	
Mississippi	5338'	

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CASING RECORD <input 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 3/4	8 5/8"	24#	1014	Lite	350	3% CC
					"A"	125	3% CC
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			
Size	Set At	Packer At					
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 Conningled Other (Specify) _____

Production Interval _____

TXO

TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

ORIGINAL

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MAY 28 1991

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DST REPORTS

WILCOXEN #1

DST #1: Interval 5324'-5350'. Keyes Fm. IHP 2749#, FHP 2691#. 30" IFP 163#-413# w/fair to strong blw. 60" FFP 490#-721# w/fair to strong blw. 60" ISIP 1171#, 120" FSIP 1171#. Rec 1650' wtr (salt wtr). BHT 121°F.

DST #2: Interval 5174'-5196'. Morrow Fm. IHP 2641#, FHP 2630#. 30" IFP 923#-1079# w/ strong blw. 60" FFP 1079#-1079# w/weak blw. 60" ISIP 1079#, 120" FSIP 1079#. Rec 2640' salt wtr.

DST #3: Interval 5036'-5080'. Morrow Fm. IHP 2599#, FHP 2504#. 30" IFP 52#-84# w/weak blw. 60" FFP 116#-127# w/very weak blw, died in 10 min. 60" ISIP 180#, 120" FSIP 307#. Rec 10' mud w/spots of oil.

RECEIVED
STATE OF KANSAS COMMISSION

MAY 7 1990

CONSERVATION DIVISION
Wichita, Kansas



DOWELL SCHLUMBERGER INCORPORATED
 P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER 15.075.20437.0000

CONFIDENTIAL

ORIGINAL
 OILFIELD SERVICES
 INDUSTRIAL SERVICES

DSI SERVICE ORDER
 RECEIPT AND INVOICE NO.
 03-43-49

DSI SERVICE LOCATION NAME AND NUMBER
 01433ES KS 03-12

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES

CUSTOMER'S NAME
 TXO
 ADDRESS
 CITY, STATE AND ZIP CODE

MAY 2 8 1991

WORKOVER NEW WELL OTHER W N API OR IC NUMBER

FROM CONFIDENTIAL

ARRIVE LOCATION MO. DAY YR. TIME
 4 6 90 0930

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DSI INDUSTRIAL SERVICE CONTRACT NO. in accordance with the terms and conditions as printed on the reverse side of this form.

SERVICE ORDER RECEIPT
 I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

185 SKS 40/40 (Poz) + 6% B20
 50 SKS AT 2900'
 50 SKS AT 1400' 10 SKS Mouse Hole
 35 SKS AT 1040 15 SKS Rat Hole
 50 SKS AT 40

JOB COMPLETION MO. DAY YR. TIME
 4 6 90 1530

STATE CODE COUNTY / PARISH CODE CITY
 Kansas Hamilton

WELL NAME AND NUMBER / JOB SITE LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA
 UNDOCKED #1 SEC 4-215-4210 DS

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048255-000	Pump chg 0-2900'	EA	1	1026.00	1026.00
059200-002	M. lease chg	MM	53	2.40	127.20
049102-000	Delivery chg 14,265' x 53 mi	TAD/MI.	447	.80	357.60
049100-000	Service chg	CS	201	1.08	217.08
059497-000	PACIR	EA	1	110.00	110.00
040015-000	CLASS A	SK	111	6.85	760.35
045008-000	LITE FOR 3	KT3	74	2.30	170.20
045014-050	B20 BENTONITE	EA	955	.13	124.15

RECEIVED
 MAY 7 1990
 CONSERVATION DIVISION
 WICHITA, KANSAS

RECEIPT

(578.51)

Thanks for using DS!

FIELD ESTIMATE # 2892 58	SUB TOTAL		
REMARKS:	LICENSE/REIMBURSEMENT FEE		
	LICENSE/REIMBURSEMENT FEE		
	STATE % TAX ON \$	843.76	35.85
	COUNTY % TAX ON \$		
	CITY % TAX ON \$		
	SIGNATURE OF DSI REPRESENTATIVE	TOTAL \$	

GENERAL TERMS AND CONDITIONS

1. **AMENDMENTS.** Any modification of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this contract, are hereby objected to. BY REQUESTING THE GOODS AND SERVICES SET FORTH HEREIN, BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED ON BOTH SIDES OF THIS DOCUMENT.
2. **TERMS.** Cash in advance unless DSI has approved credit prior to the sale. Credit terms of sale for approved accounts are total invoice amount due at DSI's office, Houston, Texas, on or before the 30th day from the date of invoice. Past due accounts are to pay interest on the balance past due at the rate of 1½% per month or the maximum allowable by the applicable state laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to effect collection of said account, Customer agrees to pay all fees directly or indirectly incurred for such collection.
3. **PRICES.** The products and services to be supplied hereunder shall be priced in accordance with DSI's current Price Schedule. As provided in DSI's Price Schedule, special jobs, under unusual conditions, will be subject to special price quotations to reflect increased or reduced costs.
4. **TAXES.** Any tax based on or measured by the charge for sale or rental of products or rendering of service shall be added to the price stated in DSI's Price Schedule.
5. **INDEPENDENT CONTRACTOR.** DSI is and shall be an independent contractor with respect to the performance of this contract, and neither DSI nor anyone employed by DSI shall be the agent, representative, employee or servant of Customer in the performance of this contract or any part hereof.
6. **FORCE MAJEURE.** Any delays or failure by DSI in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident, riot, acts of God, or any contingencies beyond the reasonable control of DSI.
7. **DISPOSAL.** Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.
12. **SEVERABILITY.** It is understood and agreed by the parties hereto that any part, term, or provision of this Contract prohibited by law shall be deemed invalid to the extent of such prohibition and shall be deemed modified to the extent necessary to conform to such rule of law.
8. **PRODUCT SALES AND RENTALS - WARRANTY.** DSI warrants only that products (including tools, supplies and materials) furnished shall conform to the quality and specification represented and that DSI can convey good title; DSI MAKES NO WARRANTY OF MERCHANTABILITY, OR THAT SAID PRODUCTS SHALL BE FIT FOR ANY PARTICULAR PURPOSE, NOR IS THERE ANY OTHER WARRANTY EXPRESSED OR IMPLIED EXCEPT AS EXPRESSLY STATED HEREIN. DSI's liability and Customer's exclusive remedy for any cause of action arising out of a product sale or rental pursuant hereto is expressly limited at DSI's option to (a) replacement or such product upon its return to DSI or (b) allowance to Customer of credit for the cost of such product.
9. **SERVICE WARRANTY.** In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, DSI will give Customer the benefit of its best judgment based on its experience in the field. Nevertheless, all such recommendations or predictions are opinions only; and, in view of the impracticability of obtaining first-hand knowledge of the many variable conditions and/or the necessity of relying on facts and supporting services furnished by others, NO WARRANTY IS GIVEN CONCERNING THE EFFECTIVENESS OF THE MATERIALS USED, RECOMMENDATIONS GIVEN, OR THE SERVICES RENDERED.
10. **LIABILITY AND INDEMNITY.** Customer agrees to be responsible for and to defend, indemnify and save harmless DSI, its officers, agents and employees, from any and all claims, loss, damage or expense by reason of accident, injuries, damages or hurt to any person or property, including property of DSI or Customer, that may occur in connection with or related to the performance of this contract and which is caused in whole or in part by the negligent act or omission of Customer, its agents, servants or employees and whether or not caused in part by the negligent act or omission of DSI. In no event shall DSI be liable for any special, incidental, indirect, punitive, or consequential damage, including, but not limited to, loss of use or loss of profit, for breach of contract, negligence (including DSI's sole negligence) or any other cause of action.
11. **DSI.** The term "DSI" as used herein is an abbreviation of Dowell Schlumberger Incorporated and where used throughout this agreement, shall be construed to mean Dowell Schlumberger Incorporated, a Delaware corporation.

SPECIAL TERMS AND CONDITIONS

In addition to the foregoing General Terms and Conditions which are applicable to all services and products furnished by DSI, the following Special Terms and Conditions are applicable to Oil Field Services and Mining Services. In the event of any conflict, inconsistency, or incongruity between the General Terms and Conditions and the Special Terms and Conditions, the Special Terms and Conditions shall govern and control.

13. **WELL.** The term "well" as used herein shall also be construed to include and mean a "mine" or other property being serviced where the work to be performed involves DSI mining services.
14. **CUSTOMER'S RESPONSIBILITY & INDEMNITIES.** The parties agree that Customer has complete custody and control of the well, the conditions created in the well, the drilling equipment, well premises and access routes from highways to well locations. Customer will have the well in readiness for the service and, following service, will return the well to production. The parties further agree that unless caused by DSI's willful misconduct or failure to exercise good faith, Customer shall be fully responsible for and defend, indemnify and save harmless DSI, its officers, agents and employees against:
 - (i) Liability for damage to property of Customer (and well owner if different from Customer), this provision applying but not limited to subsurface damage and surface damage arising from subsurface damage including any liability based in whole or in part on the negligence of DSI.
 - (ii) Liability for reservoir loss or damage, or any property damage (including but not limited to damages caused by pollution or contamination), or personal injuries resulting directly or indirectly from subsurface pressure, well blowout or cratering, or losing control of the well including any liability based in whole or in part on the negligence of DSI.
 - (iii) Liability for any damages whatever resulting directly or indirectly from a subsurface trespass, pollution or contamination arising out of any servicing operation performed by DSI or Customer including any liability based in whole or in part on the negligence of DSI.
 - (iv) Liability for injury to persons (including death) or damage to property, other than employees and property of DSI, growing out of or in any way, connected with the use of materials in the well which are radioactive, poison, toxic or otherwise hazardous including any liability based in whole or in part on the negligence of DSI.
 - (v) Liability for damages to property of customer or third parties or injuries to persons caused or alleged to have been caused by contamination or pollution from the application or use of products designed to control dust, wind erosion, product loss, sealing of ponds, reservoirs, irrigation canals, or sanitary landfills including any liability based in whole or in part on the negligence of DSI.
 - (vi) Liability for injury to persons (including death) or damage to property growing out of or in any way connected to the use of various equipment provided by DSI at no cost for the sole convenience of and use by the Buyer including any liability based in whole or in part on the negligence of DSI.
 - (vii) Liability for damage to property of Customer (and well owner if different from Customer) resulting, directly or indirectly, from tools or instruments of DSI being lost in a well, including any liability based in whole or in part on the negligence of DSI.
15. **DOWN - HOLE TOOLS AND INSTRUMENTS.** If tools or instruments of DSI are lost in a well, Customer agrees to make a reasonable effort at Customer's risk and expense to recover same; and, if unable to recover, to pay DSI for same unless such loss or damage was caused solely by DSI's negligence.
16. **OFFSHORE & MARINE OPERATIONS.** For offshore marine operations Customer agrees to insure against loss and assumes full responsibility for damage to equipment furnished by DSI from time of delivery to Customer at landing until returned to landing when transported on craft, or located on platforms not owned or leased by DSI.
Customer shall furnish transportation for crew changes at customers expense.

TREATMENT NUMBER 03-12-2491	DATE 4-6-90
STAGE DS	DISTRICT 0143863 K3

DS-496, PRINTED IN U.S.A.

WELL NAME AND NO. Wilcox #1	LOCATION (LEGAL) SEC 4-215-42W
FIELD-POOL	FORMATION
COUNTY/PARISH Hamilton	STATE Kansas
API. NO.	
NAME TXO	
AND	
ADDRESS	
ZIP CODE	
SPECIAL INSTRUCTIONS <i>July</i>	

RIG NAME: MURFIN	WELL DATA:	BOTTOM	TOP
BIT SIZE 7 7/8	CSG/Liner Size	CONFIDENTIAL	
TO/DEPTH	WEIGHT		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE		
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)		TOTAL
MUD VISC.	Disp. Capacity		

NOTE: Include Footage From Ground Level To Head In Disp. Capacity			
FISAL	TYPE		TYPE
	DEPTH		DEPTH
SHOE	TYPE		TYPE
	DEPTH		DEPTH
Head & Plugs	<input type="checkbox"/> TBG <input checked="" type="checkbox"/> D.P.	SQUEEZE JOB	
<input type="checkbox"/> Double	SIZE 4 1/2	TOOL	TYPE
<input type="checkbox"/> Single	<input type="checkbox"/> WEIGHT 1660		DEPTH
<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAIL PIPE: SIZE	DEPTH
<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME	Bbls
TOP <input type="checkbox"/> OR <input type="checkbox"/> DW	<input type="checkbox"/> NEW <input checked="" type="checkbox"/> USED	CASING VOL. BELOW TOOL	Bbls
BOT <input type="checkbox"/> OR <input type="checkbox"/> DW	DEPTH 2900	TOTAL	Bbls
		ANNUAL VOLUME	Bbls

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO
LIFT PRESSURE PSI CASING WEIGHT + SURFACE AREA (3.14 x R ²)
PRESSURE LIMIT PSI BUMP PLUG TO PSI
ROTATE RPM RECIPROCATATE FT No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
1250	90		10	3	F1120	8.33		4-6-90	1630	4-6-90	
1253	90		15	10	Chg	13.0					
1258	-		3 1/2	25	F1120	8.33					
1259	-		34	28 1/2	Mud	9.0					
1306			62 1/2	-							
1412	50		10	3	F1120	8.33					
1416	60		15	10	Chg	13.0					
1420	-		3 1/2	25	F1120	8.33					
1422	-		12 1/2	28 1/2	Mud	9.0					
1424	-		41	-							

REMARKS

RECEIVED
STATE COMMISSION

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BLS	DENSITY	BLS	DENSITY
1.	185	1.71	40/60 (Poz/H) + 6% D20			13.0
2.						
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	<input type="checkbox"/> CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO	Bbls.
BREAKDOWN	PSI FINAL	PSI DISPLACEMENT VOL.	Bbls	TYPE OF WELL	<input type="checkbox"/> OIL <input type="checkbox"/> STORAGE <input type="checkbox"/> BRINE WATER <input type="checkbox"/> GAS <input type="checkbox"/> INJECTION <input type="checkbox"/> WILOCAT
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT. MEASURED DISPLACEMENT <input type="checkbox"/>	<input type="checkbox"/> WIRELINE		
PERFORATIONS	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR		
TO	TO	Frank	Greg Genuik		

CEMENTING SERVICE REPORT

ORIGINAL **DS**

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-2491	DATE 4-6-90
STAGE DS	DISTRICT 01453ES K3

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. **Wilcox #1**

LOCATION (LEGAL) **Sec 4-213-42W**

FIELD-POOL

COUNTY/PARISH **Hamilton**

STATE **Kansas**

API. NO.

NAME

AND

ADDRESS

ZIP CODE

RIG NAME: **MurFin**

WELL DATA:

BIT SIZE 7 7/8	CSG/Liner Size	CONFIDENTIAL
DEPTH 5423	WEIGHT	
<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	
MUD TYPE	GRADE	
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	TOTAL
MUD VISC.	Disp. Capacity	

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers

Float	TYPE	Stage Tool	TYPE
	DEPTH		DEPTH
Shoe	TYPE	Shoe Tool	TYPE
	DEPTH		DEPTH

Head & Plugs TBG D.P. SQUEEZE JOB

Double SIZE **4 1/2** TOOL TYPE

Single WEIGHT **16.60** DEPTH

Swage GRADE TAIL PIPE: SIZE DEPTH

Knockoff THREAD **x 1 1/2** TUBING VOLUME Bbls

TOP OR W NEW USED CASING VOL: BELOW TOOL Bbls

BOT OR W DEPTH TOTAL Bbls

ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME **8:30 AM** DATE **4-6-90** ARRIVE ON LOCATION TIME **8:30** DATE **4-6-90** LEFT LOCATION TIME **16:30** DATE **4-6-90**

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								PRE-JOB SAFETY MEETING
1446	30		10		3 1/2	F1420	8.33	SET 50 SKS AT 1040'
1450	30		15	10	3	CMT	13.0	START F1420 AHEAD
1455	60		3 1/4	25	3	F1420	8.33	F1420 PUMPED START CEMENT
1456	-		7 1/2	28 1/4	5	Mud	9.0	CEMENT PUMPED START F1420 BEHIND
1457			35 3/4					F1420 BEHIND PUMPED START MUD
								SHUT DN - Plug BALANCED
1534	10		10		3	F1420	8.33	SET 10 SKS AT 40'
1538			3	10	3	CMT	13.0	START F1420 AHEAD
1539			13					F1420 PUMPED START CEMENT
								CEMENT PUMPED SHUT DN.
								15 SKS RAT HOLE
								15 SKS MOUSE HOLE

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY
1.	185	1.71	40/60 + 6% D20			13.1
2.						
3.						
4.						
5.						
6.						

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MAY 7 1990
CONVECTION DIVISION
Wichita, Kansas

BREAKDOWN FLUID TYPE

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls.

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. Bbls

Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO TO TO

CUSTOMER REPRESENTATIVE **Frank**

DS SUPERVISOR **Greg GRENUE**