

ORIGINAL

ORIGINAL

SIDE ONE

ORIGINAL

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

Operator: License # 06113
Name: Landmark Oil Exploration, Inc.
Address 250 N. Water
Suite 308
City/State/Zip Wichita, Kansas 67202
Purchaser: KOCH
Operator Contact Person: Jeff Wood
Phone (316) 265-8181

Contractor: Name: Chief Drilling, Inc.
License: 5886

Wellsite Geologist: P. Sam Houston

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

If OWM: old well info as follows:
Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

03-30-91 04-06-91 04-26-91
Spud Date Date Reached TD Completion Date

API NO. 15- 179-20,997-00-00
County Sheridan
100 E C SE SE SE Sec. 28 Twp. 8-S Rge. 26-W East West

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

Lease Name Robben Well # #2-28

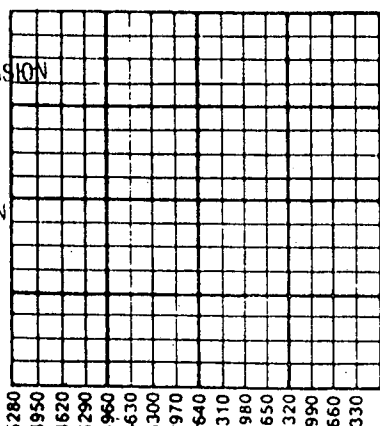
Field Name Studley South

Producing Formation Lansing-Kansas City

Elevation: Ground 2535' KB 2542'

Total Depth 3975' PBDT _____

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10-10-91

Amount of Surface Pipe Set and Cemented at 281' @ 284' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2175' Feet

If Alternate II completion, cement circulated from 2175'

feet depth to surface w/ 350 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

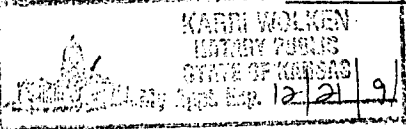
Signature _____
Title President, Jeffrey R. Wood Date 07-01-91

Subscribed and sworn to before me this 1st day of July, 19 91

Notary Public Karri Wolken
Karri Wolken

Date Commission Expires December 21, 1991

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)



ORIGINAL

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SIDE TWO

Operator Name Landmark Oil Exploration, Inc. Lease Name Robben Well # #2-28
 Sec. 28 Twp. 8-S Rge. 26-W East West
 County Sheridan

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

Log Sample

Name Top Bottom

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		8-5/8"	19#	284'	60-40-poz	185	3%CC, 2%gel
Production		5-1/2"	14#	3973'	EA-2	85	5%Calseal; 10%Sal .5%Halad 322; 1/4 D-Air.
		20bbl salt preflush; 10bbl		superflush			

PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3 spf	3873 - 3878	250gls 15% MCA; 1000gls 15%	NE
3 spf	3857 - 3860	250gls 15% MCA; 500gls 15%	NE
3 spf	3819 - 3824	500gls 15% MCA;	
3 spf	3768 - 3772	250gls 15% MCA	

TUBING RECORD

Size 2-3/8" Set At 3924' Packer At 2175'

Liner Run Yes No

Date of First Production <u>04-26-91</u>	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 Bbls. <u>110</u>	Gas Mcf	Water Bbls. <u>38</u>	Gas-Oil Ratio	Gravity	

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perforation Dually Completed Commingled Other (Specify)

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Attachment to ACO-1
Page Two

Operator Name: Landmark Oil Exploration, Inc.
Lease Name: Robben
Well Number: #2-28
Location: 100' E, C SE SE SE, Sec. 28-8S-26W
Sheridan County, Kansas
API Number: 15-179-20,997-00-00

DST #1 3705-3750 30-30-30-30. Rec. 30' co; 60' wtr.
FP 44-71/71-71#. SIP 983-983#.

DST #2 3737-3780 30-45-45-60. Rec. 280' gip; 90' go; and 90' mco, 86% oil.
FP 44-44/89-89#. SIP 357-401#.

DST #3 3797-3830 30-45-45-60. Rec. 470' gip; 280' go; 185' wtr.
FP 89-150/173-223#. SIP 312/312#.

DST #4 3842-3866 120-60. Rec. 370' oil; 2200' gip.
FP 89-98#. SIP 267#.

DST #5 3865-3885 30-45-45-60. Rec. 375' go.
FP 44-89/89-116#. SIP 89-151#.

LOG TOPS

Anhydrite	2149'	+393
B.Anhydrite	2183'	+359
Heebner	3652'	-1110
Lansing "A"	3688'	-1146
Lansing "B"	3723'	-1181
Lansing "C-D"	3736'	-1194
Lansing "F"	3766'	-1224
Lansing "H"	3819'	-1277
Lansing "I"	3840'	-1298
Lansing "J"	3857'	-1315
Stark	3866'	-1324
Lansing "K"	3873'	-1331
Lansing "L"	3901'	-1359
BKC	3912'	-1370
LTD	3972'	-1430

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LOG

WELL NO. 2-28 LEASE Kobben

15-79-20997-00-00

TICKET NO. 0315

CUSTOMER Landmark

PAGE NO. 1 of 1

JOB TYPE Cmt. Prod. Csg.

DATE 4-6-91

3 R-2

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TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
			T	C	TUBING	CASING	
2000							Called out - Ready @ 2230
2230							On location - Rig finished laying down - Change over to run casing
2340							Start Running pipe 95 Jts New 14 #/ft 5 1/2" casing. Regular Guide Shoe on bottom of 21' Shoe Joint. Insert Float Valve w/ Auto fill Ass. in top of shoe joint. Centralizers on top of 1st, 3rd, 5th, 6th, 8th, 11th, 42nd, 60th & 80th Joints. Cement Basket on 43rd Joint. Baker Port Collar on top of 43 Jt.
4-7-91							On bottom w/ casing.
0135							Rig Circulate - Pumped Ball through Insert @ 600 psi
0155							Hook up to Howco
0231	6					100	Start 18 bbl Salt Flush
0235	6	18 Salt Flush				100	Finish Salt Flush - Start 3 bbl Spacer
0236	6	3 wtr				100	Finish Spacer - Start 10 bbl Super Flush
0238	6	10 Super Flush				150	Finish Super Flush - Start 3 bbl Spacer
0239	5	3 wtr				150	Finish spacer - Start Cmt. 85 sks EA-2 w/ 5% Cal-Seal 10% Salt, 5% Halad 322 + .25% D-Air
0244	5	19 cmt				0	Finish Cement - Shut Down
0245							Wash up Pump & Lines
0246	7 1/2					200	Release Plug & start disp
0258	7	85				450	Caught Pressure
0300	7	96				800	Pressure & rate
0300	7	96 1/2				1300	Plug down - Holding
0303							Release - Held
0330							Job Complete

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JOB LOG

CUSTOMER LAND MARK OIL

PAGE NO. 1

FORM 2013 R-2

JOB TYPE CMT PORTCOLLAR

DATE 4-16-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							called out
	1345							ON LOC.
								SET up Trucks
								Hook up TO Annulus
								Move TO TBG
	1508		5		1		500	PRESSURE TEST CSG
								OPEN PORTCOLLAR
	1510				1		500	START 20BBL SALT FLUSH
	1513		10		1		700	RETURNING - SHUT DOWN - WORK ON HEAD
	1523				1		500	START REST SALT FLUSH
	1526		20		1		500	FIN FLUSH
	1529				1		500	ST. MIX 350 SKS HLC w/ 1/4 LB FLOOR T
	1533		70		1		1000	CMT CONC
	1553				1		1000	ST. DISP
	1555				1		1100	FIN DISP
								CLOSE PORTCOLLAR - RELEASE HEAD
	1558				1		500	PRESSURE TEST - HEAD
								LOWER TBG
	1601				1		500	ST. REV. OUT
	1607		20		1		400	FIN REV. OUT
								Rig Pull 5 STS TBG
								SHUT DOWN FOR DAY
								JOB COMPLETE
	1610		6					MIXED 20 STAIN PAT HOLE
								Thank you
								John Harold & Dave

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WORK ORDER CONTRACT
AND PRE-TREATMENT DATA

COPY

ATTACH TO INVOICE & TICKET NO. 051390

Hays KS

DATE 4-6-90

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

WELL NO. 2-28 LEASE Robben SEC. 28 TWP. 8s RANGE 26w
FIELD S. Studley KS COUNTY Sheridan STATE KS OWNED BY Landmark

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
PACKER: TYPE _____ SET AT _____
TOTAL DEPTH 3975 MUD WEIGHT _____
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	<u>N</u>	<u>14</u>	<u>5 1/2</u>	<u>KB</u>	<u>3975</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>KB</u>	<u>3975</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

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

Cement Production Casing w/ 85 sks EA-2 cement w/ 5% Cal-Seal, 10% Salt, .25% D-Air & .5% Halad 302. Reg. Guide Shoe, Insert w/ Auto Fill, 1 cmt. Basket + 9 centralizers, 1 EA on 1st, 3rd, 5th, 6th, 8th, 11, 42nd, 60th, & 80th, Baker Port Collar on top of 43 Jt

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

18001 Salt Wash + 10001 Super Flush as directed

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.

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 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 technical data, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

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Washington, Kansas

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 4-6-91

J. Studley KS SEC 28 TWP 8S RNG 26W COUNTY Sheridan STATE KS

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH 3975

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	14	5 1/2	KB	3975	
LINER						
TUBING						
OPEN HOLE			7 7/8	KB	3975	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
Insert Float 5 1/2"	1 EA	Howco
Auto Fill Ass	1 EA	Howco
GUIDE SHOE Reg 5 1/2"	1 EA	Howco
CENTRALIZERS S-4 5 1/2"	9 EA	Howco
BOTTOM PLUG		
TOP PLUG SW 5 1/2"	1 EA	Howco
Port Collar 5 1/2"	1 EA	Baker
PACKER		
OTHER Cmt, Basket 5 1/2"	1 EA	Howco

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 4-6-91	DATE 4-6-91	DATE 4-6-91	DATE 4-7-91
TIME 2020	TIME 2230	TIME 2340	TIME 0330

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J. Alstrom 66382	2591	Oberlin KS
J. Moore 84685	HT-400 RCM	Oberlin KS
M. Jones 52046	3846 Bulk TK	Oberlin KS

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MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API
DISPL. FLUID _____ DENSITY _____ LB/GAL-API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN.
NE AGENT TYPE _____ GAL. _____ IN.
FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN.
GELLING AGENT TYPE _____ GAL.-LB. _____ IN.
FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN.
BREAKER TYPE _____ GAL.-LB. _____ IN.
BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN.
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT Cmt
DESCRIPTION OF JOB Cmt, Prod. Casing w/ 85sks
EA-2 w/ 5% Cal-Seal, 10% Salt, .5% Halad 322 & .25% D-Air
JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
CUSTOMER REPRESENTATIVE X *Guarrel Bright*
HALLIBURTON OPERATOR Jack Moore COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	* MIXED LBS./GAL.
	85	EA-2			5% Cal-Seal, 10% Salt, .5% Halad 322, .25% D-Air	1.26	15.5

PRESSURES IN PSI _____
CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 21 REASON Shoe Joint

SUMMARY
PRESLUSH (BBL-GAL) 18 salt Flush TYPE 10 bbl Super Flush
LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____
TREATMENT: BBL-GAL. _____ DISPL. (BBL-GAL) 96 1/2
CEMENT SLURRY: (BBL-GAL) 19
TOTAL VOLUME: BBL-GAL. 143 1/2
REMARKS
See Job Log
Thank you

LOG

WELL NO. 2-28 LEASE Kobben

TICKET NO. 0515

CUSTOMER Landmark

PAGE NO. 1 of 1

3 R-2

JOB TYPE Cmt. Prod. Csg.

DATE 4-6-91

ORIGINAL

TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
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4-7-91							On bottom. w/ Casing. Rig Circulate - Pumped Ball through Insert @ 600 psi
0135							Hook up to Howco
0155							Start 18 bbl Salt Flush
0231	6					100	Finish Salt Flush - Start 3 bbl Spacer
0235	6	18 Salt Flush				100	Finish Spacer - Start 10 bbl Super Flush
0236	6	3 wtr				100	Finish Super Flush - Start 3 bbl Spacer
0238	6	10 Super Flush				150	Finish spacer - Start Cmt. 85 sks EA-2 w/ 5% Ca/Seal 10% Salt, 5% Haled 322 & .25% D-Air
0239	5	3 wtr				150	Finish Cement - Shut Down
0244	5	19 cmt				0	Wash up Pump & Lines
0245							Release Plug & start disp
0246	7 1/2					200	Caught Pressure
0258	7	85				450	Pressure & rate
0300	7	96				800	Plug down - Holding
0300	7	96 1/2				700	Release - Held
0303							Job complete.
0330							

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