

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- 189-21472-00-00

County STEVENS

E2 E2 SE Sec. 1 Twp. 34S Rge. 39 East West

Operator: License # 5208

1250 Ft. North from Southeast Corner of Section

Name: MOBIL OIL CORPORATION

330 Ft. West from Southeast Corner of Section

Address 2319 NORTH KANSAS

(NOTE: Locate well in section plat below.)

City/State/Zip LIBERAL, KS 67901

Lease Name GRACE #1 UNIT Well # 3

Field Name WILDCAT

Producing Formation MORROW

Elevation: Ground 3258.5 KB 3274.5

Total Depth 6750 PBTD P&A'D

Purchaser: SPOT MARKET

Operator Contact Person: RAE KELLY

Phone (316) 626-1160

Contractor: Name: UNIT DRILLING & EXPLORATION CO.

License: 9137

Wellsite Geologist: J. M. RICHEY

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

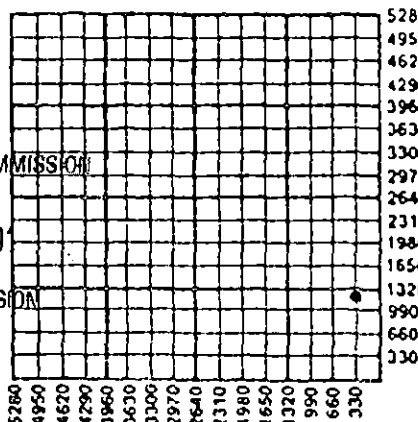
2/22/91 3/2/91 3/3/91 P&A'D

Spud Date Date Reached TD Completion Date

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APR 01 1991

CONSERVATION DIVISION
Wichita, Kansas



17 I DVA

Amount of Surface Pipe Set and Cemented at 1785 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ NA Feet

If Alternate II completion, cement circulated from NA

feet depth to _____ NA w/ _____ NA 6X 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-1 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 R. Kelly

Title ENGINEERING TECHNICIAN Date _____

Subscribed and sworn to before me this 29 day of March, 19 91.

Notary Public Esther M. Niemann

Date Commission Expires 10-1-94

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Drillers Timelog Received

KCC Distribution SWD/Rep NGPA

KGS Plug Other (Specify)



P1

SIDE TWO

Operator Name MOBIL OIL CORPORATION Lease Name GRACE #1 UNIT Well # 3
 Sec. 1 Twp. 34S Rge. 39 East West
 County STEVENS

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input 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> <p style="text-align: center;"><input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample</p> <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>CHASE</td><td>2640</td><td></td></tr> <tr><td>COUNCIL GROVE</td><td>2953</td><td></td></tr> <tr><td>ADMIRE</td><td>3256</td><td></td></tr> <tr><td>SHAWNEE</td><td>3671</td><td></td></tr> <tr><td>LANSING</td><td>4339</td><td></td></tr> <tr><td>KANSAS CITY</td><td>4694</td><td></td></tr> <tr><td>CHEROKEE</td><td>5343</td><td></td></tr> <tr><td>MORROW</td><td>5860</td><td></td></tr> <tr><td>CHESTER</td><td>6351</td><td></td></tr> <tr><td>ST. GENEVIEVE</td><td>6480</td><td></td></tr> <tr><td>ST. LOUIS</td><td>6600</td><td></td></tr> </tbody> </table>	Name	Top	Bottom	CHASE	2640		COUNCIL GROVE	2953		ADMIRE	3256		SHAWNEE	3671		LANSING	4339		KANSAS CITY	4694		CHEROKEE	5343		MORROW	5860		CHESTER	6351		ST. GENEVIEVE	6480		ST. LOUIS	6600	
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ST. LOUIS	6600																																				

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 CASING	12-1/4"	8-5/8"	24#	1785'	CL C LITE	490	65:35.6+3%CC
					CL C	310	+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
	P&A'D 3/3/91						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production	Producing Method	Size NA	Set At NA	Packer At NONE			
P&A'D 3/3/91	<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		

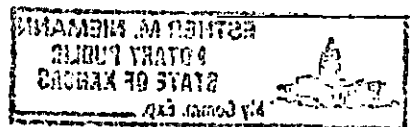
Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval _____



MSD965

*** PRISM ***

Page 2

02/23/1991

DAILY DETAILED DRILLING REPORT

06:00

ORIGINAL

PV: _____ % Oil: _____ Ca++: _____ LCM Conc: 0.0

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/

MUD CHEMICALS

BENTONITE 30 SAX
LIME 2 SAX

BIT RECORD

Bit/Run Size Mfg/ Type Depth-In Footage Rot Hrs ROP Grade
1/ 1 12.250 RTC/HP11 80 1710 11.20 152.0 5-5-WT-A-3- 0-WT-TD

HYDRAULICS

Pump# (1) (2) (3) Jet# (1) (2) (3) (4)
Volume (BPS) 0.0930 Jet Size: 13 12 0 0
SPM 60 TFA: 0.2401
Jet Vel: 313
Hole ID: 7.875
Total SPM: 60 AV's DC: DP:
Total GPM: 234 Bit Drop: 728 (61% of SPP)
Surf Pmp Press: 1200 Bit IF/Bit HHP: 316 / 2.044

SURVEYS

MD Angle Azimuth TVD Vert Sect N+/S- E+/W- DLSø/100'
1790.00 0.00 0.00 1790.00 0.00 0.00 0.00 TIE PT

WELL CONTROL

Pump # (1) (2) (3) Burst (70%): 1890 Background Gas:
SPR Shoe Test: Connection Gas:
PSI Kick Tolerance: Trip Gas :
MW: 8.9 Pore Pressure: BOP Test Date : 02/23/1991
MASP: ECD: at 1,790' With Bit at : 1,790'
BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

DRILLSTRING

Section OD ID Grade Wt/Ft Connection Length

Weights -- Torques -- Cumulative Time On
WOB: 50 M Pick-Up : M On-TD : BHA : 11
RPM: 120 Slack-off : M Off-TD: Shock Sub:
Off-TD Rotating: M Jars :

BHA

Overall Length: Overall Weight: M
BHA Description:

CASING

String OD ID Grade Wt/Ft Connection Top / Btm
SURFACE 8.675 8.097 K-55 24.00 STC 0/ 1785

DF: DC : DD: SW: CL-RES: DW:

Report Generated On: 02/26/91 @ 07:25 End of Report.....

RECEIVED STATE CORPORATION COMMISSION

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CONSERVATION DIVISION Wichita, Kansas

ORIGINAL

Lease: GRACE UNIT #1 Well #: 3 Well ID: 0025242
 Field: OUTPOST State: KS County: STEVENS
 API #: 15-189-21472-00 Ppty ID: 2743500 OCS #:
 Contractor: UNIT Rig: 19 Water Depth: '
 AFE Number: OBPO AFE Amount: 232 M Mobil GWI: %
 Supt: DH SMITH Engineer: KA CARWILE

Date Started: 02/23/1991 Time Started: 06:00
 Date Ended: 02/24/1991 Time Ended: 06:00 Job Type: Drilling
 Drlg Days: 2 Est Drlg Days: 11 Progress: 403'
 Depth: 2,193' Planned Depth: 6,500' Hole Size: 7.875"
 TV Depth: 2,193' Hole Angle: 0.000 Mud Weight: 8.9 ppg
 Last Csg: 8.675' Set At: 1,785' Shoe Test: 15.1 ppg

Formation Desc: CHASE
 Present Operation: DRILLING

Code	Z	Hrs	OPERATIONS
455	08	5.00	W.O.C.,
465	08	6.00	NIPPLE UP WELL HEAD
470	08	3.50	TIH W/ 7 7/8" BIT, PRESSURE UP ON BOP TO 1500 PSI, ANNULUS TO 1000 PSI, RAMS HELD
485	08	1.25	DRILL OUT CMT & SHOE
210	08	1.25	DRILL AHEAD FROM 1790' TO 1840'
290	08	0.25	SERVC. RIG
210	08	6.75	DRILL AHEAD FROM 1840' TO 2193' W/ NO PROBLEMS
Total:		24.00	

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 Wichita, Kansas

===== OPERATION SUMMARY =====
 WOC 12 HOURS, NU & TEST BOP EQUIPMENT, DRILL OUT CMT & SHOE, DRILL AHEAD FROM 1790' TO 2193'
 Next Period: DRILLING

===== REMARKS =====
 INCREASING CACL IN TAIL SLURRY AND REDUCING PUMP RATE TO 1-1.5 BBP ON TAIL SLURRY IMPROVED CEMENT SET AND REDUCED CEMENT FALLBACK AT CONDUCTOR TO ZERO.

Daily Man Hours: 120 Total Man Hours : 230 P.O.B: 5/ 0/ 1/ 0 = 6

Personnel: LC ROBERTS Title: SR. SUPVR. DRLG

===== COST =====

DRLG	Dry	Susp	(\$)	Intangible	Tangible	Total	Mud	Trouble
EST:	151	232	Daily:	4107	0	4107	0	0
(M\$)			Cumm:	39377	19690	59067	0	0

===== MUD =====

Sample Loc:	YP:	% Sand:	XsLime:
Date: ___/___/___	Gels(10s/10m): ___/___	% LGS:	ES:
Time: ___:___	API/HTHP: ___./___.	MBT:	O/W Ratio: ___/___
FL Temp: ___	HTHP Temp: ___	PH: ___ ()	Circ Vol: 430
Depth: 99,999	Cake Thickness: ___	Pm: ___	Vol Hole Drl: 24
Weight: 99.9	% Solids: ___	Pf/Mf: ___./___.	Cent Hrs: ___
Fnl Visc: ___	% Water: ___	Cl-: ___	Dilu. Rate: 40
PV: ___	% Oil: ___	Ca++: ___	LCM Conc: 0.0

ORIGINAL

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/

MUD CHEMICALS

BIT RECORD

Bit/Run	Size	Mfg/ Type	Depth-In	Footage	Rot Hrs	ROP	Grade
1/ 1	12.250	RTC/HP11	80	403	8.00	50.4	5-5-WT-A-3- 0-WT-TD

HYDRAULICS

Pump#	(1)	(2)	(3)	Jet#	(1)	(2)	(3)	(4)
Volume (BPS)	0.0930			Jet Size:	13	12	0	0
SPM	60			TFA:	0.2401			
				Jet Vel:	313			
				Hole ID:	7.875			
Total SPM:	60			AV's DC:	DP:			
Total GPM:	234			Bit Drop:	(% of SPP)			
Surf Pmp Press:	1250			Bit IF/Bit HHP:	/			

SURVEYS

MD	Angle	Azimuth	TVD	Vert Sect	N+/S-	E+/W-	DLSø/100'
1790.00	0.00	0.00	1790.00	0.00	0.00	0.00	TIE PT

WELL CONTROL

Pump #	(1)	(2)	(3)	Burst (70%):	1890	Background Gas:
SPR				Shoe Test:	15.1	Connection Gas:
PSI				Kick Tolerance:		Trip Gas :
MW:	8.9			Pore Pressure:		BOP Test Date : 02/23/1991
MASP:	575			ECD:	at 2,193'	With Bit at : 2,193'

BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

DRILLSTRING

Section	OD	ID	Grade	Wt/Ft	Connection	Length
					/	

Weights

WOB:	40 M	Pick-Up	:	105 M	On-TD :	125	BHA	:	8
RPM:	60	Slack-off	:	100 M	Off-TD:	50	Shock Sub:		
		Off-TD Rotating:	:	105 M			Jars	:	8

BHA

Overall Length: Overall Weight: M
BHA Description:

CASING

String	OD	ID	Grade	Wt/Ft	Connection	Top / Btm
SURFACE	8.675	8.097	K-55	24.00	STC	0/ 1785

DF: DC : DD: SW: CL-RES: DW:

Report Generated On: 03/27/91 @ 08:32 End of Report.....

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Wichita, Kansas

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02/25/1991

*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 2
06:00

ORIGINAL

PV: _____ % Oil: _____ Ca++: _____ LCM Conc: 1.0

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/

===== MUD CHEMICALS =====
BENTONITE 35 SAX
BENTONITE EXTEN 5 SAX
LCM-HULLS 30 SAX
SODA ASH 2 SAX

===== BIT RECORD =====

Bit/Run Size Mfg/ Type Depth-In Footage Rot Hrs ROP Grade
1/ 1 12.250 RTC/HP11 80 1543 31.20 49.4 5-5-WT-A-3- 0-WT-TD

===== HYDRAULICS =====

Pump# (1) (2) (3) Jet# (1) (2) (3) (4)
Volume (BPS) 0.0930 Jet Size: 13 12 0 0
SPM 62 TFA: 0.2401
Jet Vel: 324
Hole ID: 7.875
Total SPM: 62 AV's DC: DP:
Total GPM: 242 Bit Drop: (% of SPP)
Surf Pmp Press: 1300 Bit IF/Bit HHP: /

===== SURVEYS =====

MD Angle Azimuth TVD Vert Sect N+/S- E+/W- DLSø/100'
1790.00 2.50 0.00 1790.00 0.00 0.00 0.00 TIE PT

===== WELL CONTROL =====

Pump # (1) (2) (3) Burst (70%): 1890 Background Gas:
SPR 30 Shoe Test: 15.1 Connection Gas:
PSI 200 Kick Tolerance: Trip Gas :
MW: 8.9 Pore Pressure: BOP Test Date : 02/23/1991
MASP: 575 BCD: at 3,333' With Bit at : 3,360'
BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

===== DRILLSTRING =====

Section OD ID Grade Wt/Ft Connection Length
/

----- Weights ----- -- Torques -- Cumulative Time On
WOB: 45 M Pick-Up : 125 M On-TD : 130 BHA : 31
RPM: 90 Slack-off : 120 M Off-TD: 125 Shock Sub:
Off-TD Rotating: 125 M Jars : 31

===== BHA =====

Overall Length: Overall Weight: M
BHA Description:

===== CASING =====

String OD ID Grade Wt/Ft Connection Top / Btm
SURFACE 8.675 8.097 K-55 24.00 STC 0/ 1785

DF: DC : DD: SW: CL-RES: DW:

Report Generated On: 02/26/91 @ 07:25 End of Report.....

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CONSERVATION DIVISION
Wichita, Kansas

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02/25/1991

*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 1
06:00

ORIGINAL

Lease: GRACE UNIT #1
Field: OUTPOST
API #: 15-189-21472-00
Contractor: UNIT
AFE Number: OBPO
Supt: DH SMITH

Well #: 3
State: KS
Ppty ID: 2743500
Rig: 19
AFE Amount: M
Engineer: KA CARWILE

Well ID: 0025242
County: STEVENS
OCS #:
Water Depth:
Mobil GWI: %

Date Started: 02/24/1991
Date Ended: 02/25/1991
Drlg Days: 3
Depth: 3,333'
TV Depth: 3,333'
Last Csg: 8.675"

Time Started: 06:00
Time Ended: 06:00
Est Drlg Days: 11
Planned Depth: 6,500'
Hole Angle: 2.50ø
Set At: 1,785'
Job Type: Drilling
Progress: 1,140'
Hole Size: 7.875"
Mud Weight: 8.9 ppg
Shoe Test: 15.1 ppg

Formation Desc: ADMIRE
Present Operation: DRILLING

Code	Z	Hrs	OPERATIONS
210	08	1.00	DRILL AHEAD FROM 2193' TO 2230'
290	08	0.25	SERVC. RIG
210	08	7.75	DRILL AHEAD FROM 2230' TO 2665'
290	08	0.25	SERVC. RIG
210	08	7.75	DRILL AHEAD FROM 2665' TO 3057', LOST 100 BBLs FROM 2966' TO 3000'
290	08	0.25	SERVC. RIG
210	08	6.75	DRILL AHEAD FROM 3057' TO 3333', LOST 150 BBLs FROM 3090' TO 3122'

Total: 24.00

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===== OPERATION SUMMARY =====

DRILLED AHEAD FROM 2193' TO 3333', LOST 100 BBLs @ 2966', BEGAN LIGHT MUD UP, LOST 150 BBLs @ 3090', RAN 10 BBL LCM SWEEPS, NO OTHER PROBLEMS

APR 01 1991

Next Period: DRILLING

CONSERVATION DIVISION
Wichita, Kansas

===== REMARKS =====

ANTICIPATE EXCESSIVE LOST CIRCULATION FROM CURRENT DEPTH THRU THE CHEROKEE (5230'). PLAN TO RUN LOW WEIGHT MUD WITH 2-4 PPB LCM FROM THIS POINT FORWARD.

Daily Man Hours: 120 Total Man Hours : 360 P.O.B: 13/ 0/ 1/ 0 = 14

Personnel: LC ROBERTS Title: SR. SUPVR. DRLG

===== COST =====

DRLG	Dry	Susp	(\$)	Intangible	Tangible	Total	Mud	Trouble
EST:	151	232	Daily:	20687	0	20687	580	0
(M\$)			Cumm:	60064	19690	79754	840	0

===== MUD =====

Sample Loc:	Yp:	% Sand:	XsLime:
Date: ___/___/___	Gels (10s/10m): ___/___	% LGS:	ES:
Time: ___:___	API/HTHP: ___./___.	MBT:	O/W Ratio: ___/___
FL Temp: ___	HTHP Temp: ___	PH: ___ ()	Circ Vol: 616
Depth: 99,999	Cake Thickness: ___	Pm: ___	Vol Hole Drl: 69
Weight: 99.9	% Solids: ___	Pf/Mf: ___./___.	Cent Hrs: ___
Fnl Visc: ___	% Water: ___	Cl-: ___	Dilu. Rate: 40

MSD966
02/26/1991

*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 2

ORIGINAL
06:00

Weight: 8.9 % Solids: 2.90 Pf/Mf: 0.0/ 0.1 Cent Hrs: ---
Fnl Visc: 32 % Water: 87.10 Cl-: 1,900 Dilu. Rate: 20
PV: 4 % Oil: 0.00 Ca++: 320 LCM Conc: 2.0

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/
===== MUD CHEMICALS =====

BENTONITE 101 SAX
BENTONITE EXTEN 11 SAX
LCM-HULLS 79 SAX
SODA ASH 3 SAX

===== BIT RECORD =====

Bit/Run Size Mfg/ Type Depth-In Footage Rot Hrs ROP Grade
2/ 1 7.875 RTC/HP52 1790 2292 50.20 45.6 8-8-BT-A-E- 3-LT-DTF

===== HYDRAULICS =====

Pump# (1) (2) (3) Jet# (1) (2) (3) (4)
Volume (BPS) 0.0930 Jet Size: 13 12 0 0
SPM 62 TFA: 0.2401

Jet Vel: 324
Hole ID: 7.875
Total SPM: 62 AV's DC: DP:
Total GPM: 242 Bit Drop: 834 (64% of SPP)
Surf Pmp Press: 1300 Bit IF/Bit HHP: 362 / 2.418

===== SURVEYS =====

MD Angle Azimuth TVD Vert Sect N+/S- E+/W- DLSø/100'
1790.00 2.50 0.00 1790.00 0.00 0.00 0.00 TIE PT

===== WELL CONTROL =====

Pump # (1) (2) (3) Burst (70%): 1890 Background Gas:
SPR 30 Shoe Test: 15.1 Connection Gas:
PSI 200 Kick Tolerance: Trip Gas :
MW: 8.9 Pore Pressure: BOP Test Date : 02/23/1991
MASP: 575 ECD: at 4,103' With Bit at : 4,101'
BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

===== DRILLSTRING =====

Section OD ID Grade Wt/Ft Connection Length
/

----- Weights ----- -- Torques -- Cumulative Time On
WOB: 45 M Pick-Up : 140 M On-TD : 75 BHA : 50
RPM: 90 Slack-off : 135 M Off-TD: 50 Shock Sub:
Off-TD Rotating: 138 M Jars : 50

===== BHA =====

Overall Length: Overall Weight: M
BHA Description:

===== CASING =====

String OD ID Grade Wt/Ft Connection Top / Btm
SURFACE 8.675 8.097 K-55 24.00 STC 0/ 1785

DF: DC ; DD: SW: CL-RES: DW:

Report Generated On: 02/26/91 @ 13:00 End of Report.....

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Wichita, Kansas

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02/26/1991

*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 06:00 ORIGINAL

Lease: GRACE UNIT #1
Field: OUTPOST
API #: 15-189-21472-00
Contractor: UNIT
AFE Number: OBPQ
Supt: DH SMITH

Well #: 3
State: KS
Ppty ID: 2743500
Rig: 19
AFE Amount: M
Engineer: KA CARWILE

Well ID: 0025242
County: STEVENS
OCS #:
Water Depth:
Mobil GWI: %

Date Started: 02/25/1991
Date Ended: 02/26/1991
Drlg Days: 4
Depth: 4,103'
TV Depth: 4,103'
Last Csg: 8.675"

Time Started: 06:00
Time Ended: 06:00
Est Drlg Days: 11
Planned Depth: 6,500'
Hole Angle: 2.500
Set At: 1,785'
Job Type: Drilling
Progress: 770'
Hole Size: 7.875"
Mud Weight: 8.9 ppg
Shoe Test: 15.1 ppg

Formation Desc: COUNCIL GROVE
Present Operation: DRILLING

Code	Z	Hrs	OPERATIONS
210	08	1.00	DRILL AHEAD FROM 3333' TO 3365'
290	08	0.25	SERV. RIG
210	08	7.75	DRILL AHEAD FROM 3365' TO 3690', LOST 150 BBLs MUD @ 3403' TO 3418'
290	08	0.25	SERV. RIG
210	08	1.75	DRILL AHEAD FROM 3690' TO 3768'
290	08	0.25	REPAIR RIG
210	08	5.75	DRILL AHEAD FROM 3768' TO 3995'
290	08	0.25	SERV. RIG
210	08	2.50	DRILL AHEAD FROM 3995' TO 4087'
220	08	3.75	SURVEY, POOH FOR BIT, PU NEW BIT, TIH, SURVEY 3/4 DEGREE
210	08	0.50	DRILL AHEAD FROM 4087' TO 4103'
Total:		24.00	

=====
OPERATION SUMMARY
=====
DRILLED AHEAD FROM 3333' TO 4101', LOST 150 BBLs MUD @ 3403' TO 3418', NO OTHER PROBLEMS
Next Period: DRILLING

=====
REMARKS
=====

Daily Man Hours: 120 Total Man Hours : 480 P.O.B: 13/ 0/ 1/ 0 = 14

Personnel: Title:
LC ROBERTS SR. SUPVR. DRLG

===== COST =====								
DRLG	Dry	Susp	(\$)	Intangible	Tangible	Total	Mud	Trouble
EST:	151	232	Daily:	5621	0	5621	1514	0
(M\$)			Cumm:	65685	19690	85375	2354	0

===== MUD =====							
Sample Loc:	F	YP:	7	% Sand:	0.00	XsLime:	0.00
Date:	02/26/1991	Gels(10s/10m):	1/ 6	% LGS:	1.07	ES:	
Time:	06:00	API/HTHP:	48.0/	MBT:		O/W Ratio:	000/100
FL Temp:		HTHP Temp:		PH:	8.0 (S)	Circ Vol:	662
Depth:	4,101	Cake Thickness:	2	Pm:	0.0	Vol Hole Drl:	46

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*** PRISM ***
DAILY DETAILED DRILLING REPORT

ORIGINAL 06:00

PV: 5 % Oil: 0.00 Ca++: 160 LCM Conc: 370

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/

===== MUD CHEMICALS =====

BENTONITE 55 SAX
BENTONITE EXTEN 7 SAX
LCM-HULLS 38 SAX
SODA ASH 3 SAX

===== BIT RECORD =====

Bit/Run Size Mfg/ Type Depth-In Footage Rot Hrs ROP Grade
3/ 1 7.875 RTC/HP52 4087 738 20.20 36.4 - - - - -

===== HYDRAULICS =====

Pump# (1) (2) (3) Jet# (1) (2) (3) (4)
Volume (BPS) 0.0930 Jet Size: 13 12 0 0
SPM 62 TFA: 0.2401
Jet Vel: 324
Hole ID: 7.875
Total SPM: 62 AV's DC: 259 DP: 131
Total GPM: 242 Bit Drop: 834 (60% of SPP)
Surf Pmp Press: 1400 Bit IF/Bit HHP: 362 / 2.418

===== SURVEYS =====

MD Angle Azimuth TVD Vert Sect N+/S- E+/W- DLSø/100'
1790.00 2.50 0.00 1790.00 0.00 0.00 0.00 TIE PT
4087.00 0.75 0.00 4085.99 65.14 65.14 0.00 0.076

===== WELL CONTROL =====

Pump # (1) (2) (3) Burst (70%): 1890 Background Gas: 12
SPR 30 Shoe Test: 15.1 Connection Gas: 37
PSI 200 Kick Tolerance: 1.65 Trip Gas : 215
MW: 8.9 Pore Pressure: BOP Test Date : 02/23/1991
MASP: 575 ECD: 9.09 at 4,825' With Bit at : 4,825'
BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

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===== DRILLSTRING =====

Section OD ID Grade Wt/Ft Connection Length
DP 4.500 3.100 E 20.00 4.500/XH 3985
DC 6.250 2.250 N 91.00 4.500/XH 840

----- Weights ----- -- Torques -- Cumulative Time On
WOB: 45 M Pick-Up : 155 M On-TD : 50 BHA : 81
RPM: 90 Slack-off : 140 M Off-TD: 140 Shock Sub: 0
Off-TD Rotating: 150 M Jars : 0

===== BHA =====

Overall Length: 840.00' Overall Weight: 76 M
BHA Description: 7-7/8" BIT - 27 X 6-1/4" DC - XO = 840.33'.

===== CASING =====

String OD ID Grade Wt/Ft Connection Top / Btm
SURFACE 8.675 8.097 K-55 24.00 STC 0/ 1785

DF: DC : DD: SW: CL-RES: DW:

Report Generated On: 02/27/91 @ 13:44 End of Report.....

ORIGINAL

290 06 0.25 RIG SERVICE
 210 06 7.75 DRLG 4135-4435 300' 38.7 fph. LOST 80 BBL MUD FROM 4290-4305.
 290 06 0.25 SERVICE RIG
 210 06 1.50 DRLG 4435-4495 60' 40 fph
 930 06 3.50 TOH FOR PLUGGED JET NOZZEL - PLUGGED W/ KNOTTED STRING.
 210 06 2.75 DRLG 4495-4585 90' 32.7 fph
 290 06 0.25 SERVICE RIG
 210 06 6.75 DRLG 4585-4825 240' 35.6 fph. LOST 150 BBL 4600-4615; 20 BBL
 4640-4645 partial returns.

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Total: 24.00

===== OPERATION SUMMARY =====

DRILLED FROM 4135-4825. TRIPPED FOR PLUGGED JET - KNOTTED STRING. LOST 80 BBL MUD FROM 4290-4305; 150 BBL 4600-4615; 20 BBL 4640-4645 partial returns.

Next Period: CONTINUE TO DRILL

===== REMARKS =====

FORMATION TOPS: LANSING - 4410 KANSAS CITY - 4695

Daily Man Hours: 312 Total Man Hours : 792 P.O.B: 13/ 0/ 1/ 0 = 14

Personnel: Title:
 MM HILL 316-544-8998/8997 SR DRLG FRMN

===== COST =====

DRLG	Dry	Susp	(\$)	Intangible	Tangible	Total	Mud	Trouble
EST:	151	232	Daily:	5857	0	5857	914	0
(M\$)			Cumm:	71542	19690	91232	3268	0

===== MUD =====

Sample Loc: F YP: 8 % Sand: 0.10 XsLime: 0.03
 Date: 02/27/1991 Gels(10s/10m): 2/ 7 % LGS: 1.25 ES: _____
 Time: 06:00 API/HTHP: ____/____ MBT: ____ O/W Ratio: 000/100
 FL Temp: _____ HTHP Temp: _____ PH: 8.5 (S) Circ Vol: 714
 Depth: 4,833 Cake Thickness: 2 Pm: 0.1 Vol Hole Drl: 43
 Weight: 8.9 % Solids: 2.70 Pf/Mf: 0.0/ 0.1 Cent Hrs: 0.0
 Fnl Visc: 34 % Water: 97.30 Cl-: 1,500 Dilu. Rate: 25

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*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 1
ORIGINAL 06:00

Lease: GRACE UNIT #1
Field: OUTPOST
API #: 15-189-21472-00
Contractor: UNIT
AFE Number: OBPO
Supt: DH SMITH

Well #: 3
State: KS
Ppty ID: 2743500
Rig: 19
AFE Amount: M
Engineer: KA CARWILE

Well ID: 0025242
County: STEVENS
OCS #:
Water Depth:
Mobil GWI: %

Date Started: 02/26/1991
Date Ended: 02/27/1991
Drlg Days: 5
Depth: 4,825'
TV Depth: 4,825'
Last Csg: 8.675"

Time Started: 06:00
Time Ended: 06:00
Est Drlg Days: 11
Planned Depth: 6,500'
Hole Angle: 0.75ø
Set At: 1,785'

Job Type: Drilling
Progress: 722'
Hole Size: 7.875"
Mud Weight: 8.9 ppg
Shoe Test: 15.1 ppg

Formation Desc: KANSAS CITY 70% SHALE 30% LS
Present Operation: DRILLING AHEAD @ 4825'.

Code Z Hrs OPERATIONS
210 06 1.00 DRLG 4103-41

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DAILY DETAILED DRILLING REPORT

Page 2
ORIGINAL

06:00

PV: 5 % Oil: 0.00 Ca++: 100 LCM Conc: 4.0

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/
===== MUD CHEMICALS =====

BENTONITE 148 SAX
BENTONITE EXTEN 11 SAX
CAUSTIC 2 SAX
LCM-HULLS 68 SAX
SODA ASH 2 SAX

===== BIT RECORD =====

Bit/Run Size Mfg/Type Depth-In Footage Rot Hrs ROP Grade
3/ 1 7.875 RTC/HP52 4087 1377 43.00 32.0 - - - - -

===== HYDRAULICS =====

Pump# (1) (2) (3) Jet# (1) (2) (3) (4)
Volume (BPS) 0.0930 Jet Size: 13 12 0 0
SPM 62 TFA: 0.2401
Jet Vel: 324
Hole ID: 7.875
Total SPM: 62 AV's DC: 259 DP: 131
Total GPM: 242 Bit Drop: 824 (59% of SPP)
Surf Pmp Press: 1400 Bit IF/Bit HHP: 358 / 2.391

===== SURVEYS =====

MD Angle Azimuth TVD Vert Sect N+/S- E+/W- DLSø/100
4087.00 0.75 0.00 4085.99 65.14 65.14 0.00 TIE PT

===== WELL CONTROL =====

Pump # (1) (2) (3) Burst (70%): 1890 Background Gas: 30
SPR 30 Shoe Test: 15.1 Connection Gas: 84
PSI 200 Kick Tolerance: 1.50 Trip Gas : 0
MW: 8.8 Pore Pressure: BOP Test Date : 02/23/1991
MASP: 585 ECD: 9.05 at 5,464' With Bit at : 5,464'

BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

===== DRILLSTRING =====

Section OD ID Grade Wt/Ft Connection Length
DP 4.500 3.100 E 20.00 4.500/XH 4624
DC 6.250 2.250 N 91.00 4.000/H90 840

----- Weights -----

-- Torques --

Cumulative Time On

WOB: 45 M Pick-Up : 170 M On-TD : 150 BHA : 103
RPM: 90 Slack-off : 150 M Off-TD: 50 Shock Sub: 0
Off-TD Rotating: 161 M Jars : 0

===== BHA =====

Overall Length: 840.00' Overall Weight: 76 M
BHA Description: 7-7/8" BIT - 27 X 6-1/4" DC - XO = 840.33'.

===== CASING =====

String OD ID Grade Wt/Ft Connection Top / Btm
SURFACE 8.675 8.097 K-55 24.00 STC 0/ 1785

DF: DC : DD: SW: CL-RES: DW:

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ORIGINAL 06:00

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FL Temp: _____	HHP Temp: _____	PH: _____ ()	Circ Vol: 806
Depth: 99,999	Cake Thickness: _____	Pm: _____	Vol Hole Drl: 46
Weight: 99.9	% Solids: _____	Pf/Mf: _____/_____	Cent Hrs: 0.0
Fnl Visc: _____	% Water: _____	Cl-: _____	Dilu. Rate: 10
PV: _____	% Oil: _____	Ca++: _____	LCM Conc: 2.0

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/

===== MUD CHEMICALS =====

BENTONITE 91 SAX
 BENTONITE EXTEN 16 SAX
 CAUSTIC 4 SAX
 LCM-HULLS 120 SAX
 PAC-R 2 SAX

===== BIT RECORD =====

Bit/Run	Size	Mfg/ Type	Depth-In	Footage	Rot Hrs	ROP	Grade
3/ 1	7.875	RTC/HP52	4087	2143	65.00	33.0	- - - - -

===== HYDRAULICS =====

Pump#	(1)	(2)	(3)	Jet#	(1)	(2)	(3)	(4)
Volume (BPS)	0.0930			Jet Size:	13	12	0	0
SPM	62			TFA:	0.2401			
				Jet Vel:	324			
				Hole ID:	7.875			
Total SPM:	62			AV's DC:	259	DP:	131	
Total GPM:	242			Bit Drop:	(% of SPP)			
Surf Pmp Press:	1350			Bit IF/Bit HHP:	/			

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===== SURVEYS =====

MD	Angle	Azimuth	TVD	Vert Sect	N+/S-	E+/W-	DLSo/100'
4087.00	0.75	0.00	4085.99	65.14	65.14	0.00	TIE PT

===== WELL CONTROL =====

Pump #	(1)	(2)	(3)	Burst (70%):	1890	Background Gas:	110
SPR	30			Shoe Test:	15.1	Connection Gas:	180
PSI	200			Kick Tolerance:	1.28	Trip Gas	0
MW:	8.9			Pore Pressure:		BOP Test Date :	02/23/1991
MASP:	575			ECD:	9.21 at 6,230'	With Bit at :	6,230'

BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

===== DRILLSTRING =====

Section	OD	ID	Grade	Wt/Ft	Connection	Length
DP	4.500	3.100	E	20.00	4.500/XH	5390
DC	6.250	2.250	N	91.00	4.000/H90	840

Weights		Torques		Cumulative Time On	
WOB: 43 M	Pick-Up : 185 M	On-TD : 150	BHA : 125		
RPM: 60	Slack-off : 155 M	Off-TD: 100	Shock Sub: 0		
	Off-TD Rotating: 170 M		Jars : 0		

===== BHA =====

Overall Length: 840.00' Overall Weight: 76 M
 BHA Description: 7-7/8" BIT - 27 X 6-1/4" DC - XO = 840.33'.

===== CASING =====

String	OD	ID	Grade	Wt/Ft	Connection	Top / Btm
SURFACE	8.675	8.097	K-55	24.00	STC	0/ 1785

DF: DC : DD: SW: CL-RES: DW:

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03/02/1991

*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 2
ORIGINAL 06:00

Fnl Visc: 47 % Water: 95.70 Cl-: 1,100 Dilu. Rate: 10
PV: 15 % Oil: 0.00 Ca++: 40 LCM Conc: 1.0

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/
===== MUD CHEMICALS =====

BENTONITE 80 SAX
BENTONITE EXTEN 11 SAX
CAUSTIC 6 SAX
LCM-HULLS 48 SAX
PAC-R 1 SAX

===== BIT RECORD =====

Bit/Run Size Mfg/ Type Depth-In Footage Rot Hrs ROP Grade
3/ 1 7.875 RTC/HP52 4087 2604 88.00 29.6 3-5-EC-M-E- 0-CT-TD

===== HYDRAULICS =====

Pump# (1) (2) (3) Jet# (1) (2) (3) (4)
Volume (BPS) 0.0930 Jet Size: 13 12 0 0
SPM 62 TFA: 0.2401
Jet Vel: 324
Hole ID: 7.875
Total SPM: 62 AV's DC: 259 DP: 131
Total GPM: 242 Bit Drop: 843 (56% of SPP)
Surf Pmp Press: 1500 Bit IF/Bit HHP: 366 / 2.445

===== SURVEYS =====

MD Angle Azimuth TVD Vert Sect N+/S- E+/W- DLSø/100'
4087.00 0.75 0.00 4085.99 65.14 65.14 0.00 TIE PT

===== WELL CONTROL =====

Pump # (1) (2) (3) Burst (70%): 1890 Background Gas: 40
SPR 30 Shoe Test: 15.1 Connection Gas: 34
PSI 375 Kick Tolerance: 1.16 Trip Gas : 0
MW: 9.0 Pore Pressure: BOP Test Date : 02/23/1991
MASP: 566 ECD: 9.34 at 6,691' With Bit at : 6,691'
BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

===== DRILLSTRING =====

Section OD ID Grade Wt/Ft Connection Length
DP 4.500 3.100 E 20.00 4.500/XH 5851
DC 6.250 2.250 N 91.00 4.000/H90 840

----- Weights ----- -- Torques -- Cumulative Time On
WOB: 45 M Pick-Up : 190 M On-TD : 100 BHA : 148
RPM: 60 Slack-off : 170 M Off-TD: 50 Shock Sub: 0
Off-TD Rotating: 182 M Jars : 0

===== BHA =====

Overall Length: 840.00' Overall Weight: 76 M
BHA Description: 7-7/8" BIT - 27 X 6-1/4" DC - XO = 840.33'.

===== CASING =====

String OD ID Grade Wt/Ft Connection Top / Btm
SURFACE 8.675 8.097 K-55 24.00 STC 0/ 1785

DF: DC : DD: SW: CL-RES: DW:

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*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 1
ORIGINAL 06:00

Lease: GRACE UNIT #1
Field: OUTPOST
API #: 15-189-21472-00
Contractor: UNIT
AFE Number: OBPO
Supt: DH SMITH

Well #: 3
State: KS
Ppty ID: 2743500
Rig: 19
AFE Amount: 232 M
Engineer: KA CARWILE

Well ID: 0025242
County: STEVENS
OCS #:
Water Depth: '
Mobil GWI: 8

Date Started: 03/01/1991
Date Ended: 03/02/1991
Drlg Days: 8
Depth: 6,691'
TV Depth: 6,691'
Last Csg: 8.675"

Time Started: 06:00
Time Ended: 06:00
Est Drlg Days: 11
Planned Depth: 6,500'
Hole Angle: 0.75ø
Set At: 1,785'

Job Type: Drilling
Progress: 461'
Hole Size: 7.875"
Mud Weight: 9.0 ppg
Shoe Test: 15.1 ppg

Formation Desc: 30% LS; 70% SHALE; TRACE SS.
Present Operation: DRLG AHEAD @ 6691'.

Code	Z	Hrs	OPERATIONS
210	06	1.00	DRLG 6230-6245 15' 15 fph
290	06	0.25	RIG SERVICE
210	06	7.75	DRLG 6245-6450 205' 26.5 fph
290	06	0.25	RIG SERVICE
210	06	6.25	DRLG 6450-6545 95' 15.2 fph
870	06	0.25	RIG REPAIR
210	06	1.25	DRLG 6545-6565 20' 16 fph
290	06	0.25	RIG SERVICE
210	06	6.75	DRLG 6565-6691 126' 18.7 fph
Total:		24.00	

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=====
OPERATION SUMMARY
=====
DRILLED 7-7/8" f/ 6230'-6691'; 461'. NO PROBLEMS.

Next Period: CONTINUE TO DRILL TO TD - 6750'; LOG W/ SCHLUMBERGER.

=====
REMARKS
=====
FORMATION TOPS: LANSING-4390; KANSAS CITY-4695; MARMATON-5044; CHEROKEE-5312;
MORROW - 5860; MORROW "B" SAND - 5904; MORROW KEYS SAND - 6300; CHESTER - 6368;
ST GEN - 6406; ST LOUIS - 6560. TOTAL MUD LOSS FOR WELL ---- 1000 BBL.
TOTAL MUD COST =\$8669 - \$1.28/FT.

Daily Man Hours: 120 Total Man Hours : 830 P.O.B: 5/ 0/ 1/ 0 = 6

Personnel: MM HILL Title: SR DRLG FRMN

DRLG		Dry		Susp		(\$)		Intangible		Tangible		Total		Mud		Trouble	
EST:	151	232	232	Daily:	6205	0	6205	1375	0								
(M\$)				Cumm:	91833	19690	111523	8669	0								

Sample Loc:		F		YP:		15		% Sand:		0.10		XsLime:		0.11	
Date:	03/02/1991	Gels(10s/10m):	9/	16	% LGS:	3.69	ES:								
Time:	06:00	API/HTHP:	8.8/		MBT:		O/W Ratio:	000/100							
FL Temp:		HTHP Temp:			PH:	9.5 (S)	Circ Vol:	888							
Depth:	6,691	Cake Thickness:	2		Pm:	0.5	Vol Hole Drl:	28							
Weight:	9.0	% Solids:	4.30		Pf/Mf:	0.1/ 0.2	Cent Hrs:	0.0							

MSD966

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Page 3

03/03/1991

DAILY DETAILED DRILLING REPORT

06:00

ORIGINAL

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Page 2

03/03/1991

DAILY DETAILED DRILLING REPORT

ORIGINAL

06:00

Time: 07:30 API/HTHP: 8.8/___ MBT: ___ O/W Ratio: 000/100
 FL Temp: ___ HTHP Temp: ___ PH: 9.5 (S) Circ Vol: 892
 Depth: 6,717 Cake Thickness: 2 Pm: 0.5 Vol Hole Drl: 4
 Weight: 9.0 % Solids: 4.30 Pf/Mf: 0.1/ 0.2 Cent Hrs: 0.0
 Fnl Visc: 47 % Water: 95.70 Cl-: 1,100 Dilu. Rate: 10
 PV: 15 % Oil: 0.00 Ca++: 40 LCM Conc: 1.0

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/

===== MUD CHEMICALS =====

BENTONITE 10 SAX
 BENTONITE EXTEN 5 SAX
 LCM-HULLS 4 SAX

===== BIT RECORD =====

Bit/Run	Size	Mfg/ Type	Depth-In	Footage	Rot Hrs	ROP	Grade
3/ 1	7.875	RTC/HP52	4087	2663	91.50	29.1	3-5-EC-M-E- 0-CT-TD

===== HYDRAULICS =====

Pump#	(1)	(2)	(3)	Jet#	(1)	(2)	(3)	(4)
Volume (BPS)	0.0930			Jet Size:	13	12	0	0
SPM	62			TFA:	0.2401			
				Jet Vel:	324			
				Hole ID:	7.875			
Total SPM:	62			AV's DC:	259	DP:	131	
Total GPM:	242			Bit Drop:	843	(56% of SPP)		
Surf Pmp Press:	1500			Bit IF/Bit HHP:	366 /	2.445		

===== SURVEYS =====

MD	Angle	Azimuth	TVD	Vert Sect	N+/S-	E+/W-	DLSø/100'
4087.00	0.75	0.00	4085.99	65.14	65.14	0.00	TIE PT
6750.00	0.50	0.00	6748.83	94.19	94.19	0.00	0.009

===== WELL CONTROL =====

Pump #	(1)	(2)	(3)	Burst (70%):	1890	Background Gas:
SPR	30			Shoe Test:	15.1	Connection Gas:
PSI	375			Kick Tolerance:	1.15	Trip Gas :
MW:	9.0			Pore Pressure:		BOP Test Date : 02/23/1991
MASP:	566			ECD:	9.34 at 6,750'	With Bit at : 6,750'

BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

===== DRILLSTRING =====

Section	OD	ID	Grade	Wt/Ft	Connection	Length
DP	4.500	3.100	E	20.00	4.500/XH	5910
DC	6.250	2.250	N	91.00	4.000/H90	840

Weights		Torques		Cumulative Time On	
WOB: 45 M	Pick-Up : 190 M	On-TD : 100	BHA : 152		
RPM: 60	Slack-off : 170 M	Off-TD: 50	Shock Sub: 0		
	Off-TD Rotating: 182 M		Jars : 0		

===== BHA =====

Overall Length: 840.00' Overall Weight: 76 M
 BHA Description: 7-7/8" BIT - 27 X 6-1/4" DC - XO = 840.33'.

===== CASING =====

String	OD	ID	Grade	Wt/Ft	Connection	Top / Btm
SURFACE	8.675	8.097	K-55	24.00	STC	0/ 1785

DF: DC : DD: SW: CL-RES: DW:

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Page 3
06:01
ORIGINAL

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03/04/1991

*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 2
06:00
ORIGINAL

Sample Loc: _____	YP: _____	% Sand: _____	XsLime: _____
Date: ___/___/___	Gels (10s/10m): ___/___	% LGS: _____	ES: _____
Time: _____	API/HTHP: ___./___.	MBT: _____	O/W Ratio: ___/___
FL Temp: _____	HTHP Temp: _____	PH: _____ ()	Circ Vol: _____
Depth: 99,999	Cake Thickness: _____	Pm: _____	Vol Hole Drl: 0
Weight: 99.9	% Solids: _____	Pf/Mf: ___./___.	Cent Hrs: _____
Fnl Visc: _____	% Water: _____	Cl-: _____	Dilu. Rate: _____
PV: _____	% Oil: _____	Ca++: _____	LCM Conc: _____

Rhe'gy at: ø 600/ 300/ 200/ 100/ 60/ 30/ 6/ 3/

===== MUD CHEMICALS =====

===== BIT RECORD =====

Bit/Run	Size	Mfg/ Type	Depth-In	Footage	Rot Hrs	ROP	Grade
0/ 0	7.875	RTC/HP52					

===== HYDRAULICS =====

Pump#	(1)	(2)	(3)	Jet#	(1)	(2)	(3)	(4)
Volume (BPS)	0.0930			Jet Size:	13	12	0	0
SPM				TFA:	0.2401			
				Jet Vel:				
				Hole ID:	7.875			
Total SPM:				AV's DC:		DP:		
Total GPM:				Bit Drop:	(% of SPP)			
Surf Pmp Press:				Bit IF/Bit HHP:	/			

===== SURVEYS =====

MD	Angle	Azimuth	TVD	Vert Sect	N+/S-	E+/W-	DLSø/100'
6750.00	0.50	0.00	6748.83	94.19	94.19	0.00	TIE PT

===== WELL CONTROL =====

Pump #	(1)	(2)	(3)	Burst (70%):	1890	Background Gas:
SPR				Shoe Test:	15.1	Connection Gas:
PSI				Kick Tolerance:		Trip Gas :
MW:				Pore Pressure:		BOP Test Date : 02/23/1991
MASP:				ECD:	at 6,750' With Bit at :	

BOP Test Comments: TEST RAMS TO 1500 PSI, ANNULAR PREVENTORS TO 1000 PSI

===== DRILLSTRING =====

Section	OD	ID	Grade	Wt/Ft	Connection	Length
DP	4.500	3.100	E	20.00	4.500/XH	5910
DC	6.250	2.250	N	91.00	4.000/H90	840

	-----	Weights	-----	--	Torques	--	Cumulative Time On
WOB:	M	Pick-Up	:	M	On-TD :	BHA	:
RPM:		Slack-off	:	M	Off-TD:	Shock Sub:	
		Off-TD Rotating:		M		Jars	:

===== BHA =====

Overall Length: 840.00' Overall Weight: 76 M

BHA Description: 7-7/8" BIT - 27 X 6-1/4" DC - XO = 840.33'.

===== CASING =====

String	OD	ID	Grade	Wt/Ft	Connection	Top / Btm
SURFACE	8.675	8.097	K-55	24.00	STC	0/ 1785

DF: DC : DD: SW: CL-RES: DW:

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APR 04 1991

CONSERVATION DIVISION
Wichita, Kansas

MSb966
03/04/1991

*** PRISM ***
DAILY DETAILED DRILLING REPORT

Page 1
06 of 06
ORIGINAL

Lease: GRACE UNIT #1
Field: OUTPOST
API #: 15-189-21472-00
Contractor: UNIT
AFE Number: OBPO
Supt: DH SMITH

Well #: 3
State: KS
Ppty ID: 2743500
Rig: 19
AFE Amount: 232 M
Engineer: KA CARWILE

Well ID: 0025242
County: STEVENS
OCS #:
Water Depth: '
Mobil GWI: %

Date Started: 03/03/1991
Date Ended: 03/04/1991
Drlg Days: 10
Depth: 6,750'
TV Depth: 6,750'
Last Csg: 8.675"

Time Started: 06:00
Time Ended: 06:00
Est Drlg Days: 11
Planned Depth: 6,500'
Hole Angle: 0.50ø
Set At: 1,785'
Job Type: Drilling
Progress: 0'
Hole Size: 7.875"
Mud Weight: ppg
Shoe Test: 15.1 ppg

Formation Desc:
Present Operation: RELEASE RIG 23:00 03/03/91

Code	Z	Hrs	OPERATIONS
310	07	2.00	CONT TO LOG BHC SONIC & RD SCHLUMBERGER. JIM RICHEY - MOBIL GEOLOGIST NOTIFIED OF INTENTION TO PLUG. CHASE - 2640; BASE OF COUNCIL GROVE - 3202.
515	15	0.75	TIH W 6-1/4" DCs
515	15	2.25	RU CYCLONE LAY DOWN MACHINE & LAY DOWN DC
515	15	3.75	TIH W/ DP OE & LD PIPE TO 3200'.
445	15	0.50	CIRC BEFORE CEMENTING 1st PLUG
510	15	0.50	RU WESTERN & PUMP 100 SX PLUG 3200'-2950'.
515	15	0.25	LD DP TO 2650'.
510	15	0.50	2nd PLUG: 75 SX PLUG @ 2650-2472.
515	15	0.50	LD DP TO 1840'.
510	15	0.25	3rd PLUG 50 SX @ 1840-1620.
515	15	0.75	LD DP TO 40'
510	15	0.25	4th PLUG 10 SX @ 50-5.
464	15	4.75	ND BOP & JET PITS. RIG RELEASED @ 2300 3/3/91.
Total:		17.00	

=====
FINISHED LOGGING. LAYED DOWN DC'S & DP. SET 4 CMT PLUGS @ 3200-2950; 2650-2472; 1840-1620; 50-5.

Next Period: RIG DOWN

=====
REMARKS
MOBIL GEOLOGIST JIM RICHEY NOTIFIED OF INTENTION TO PLUG. KCC HAD BEEN ALERTED 3/2/91 - STEVE DURANT. CHASE - 2630 BASE COUNCIL GROVE - 3202. RIG RELEASED @ 2300 3/3/91.

RECEIVED
STATE CORPORATION COMMISSION

APR 01 1991

REGISTRATION DIVISION
Wichita, Kansas

Daily Man Hours: 153 Total Man Hours : 2193 P.O.B: 9/ 0/ 1/12 = 22

Personnel: Title:
MM HILL 316-544-8998/8997 SR DRLG FRMN

===== COST =====								
DRLG	Dry	Susp	(\$)	Intangible	Tangible	Total	Mud	Trouble
EST:	151	232	Daily:	25905	0	25905	0	0
(M\$)			Cumm:	123082	19690	142772	8669	0
===== MUD =====								