

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

SIDE ONE
5

API No. 15-135-23-237-00-00
County Ness
W/2 SW/4 SW/4 Sec 20 Twp 17S Rge 21W East
X West

Operator: License # 6759
Name William N. Bucklin, III
Address 150 California St., Suite 300
City/State/Zip San Francisco, California 94111

660 Ft North from Southeast Corner of Section
4950 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

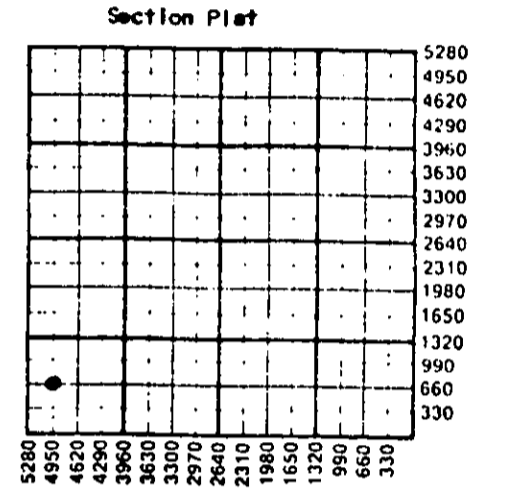
Purchaser
Operator Contact Person William N. Bucklin, III
Phone 415-433-7100

Lease Name Brenner Well # 3
Field Name

Contractor: License # 5302
Name Red Tiger Drilling Company
Wellsite Geologist JOHN DAWSON
Phone 503-469-6474

Producing Formation III
Elevation: Ground 2218 KB 2223

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



If ONWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

WELL HISTORY

Drilling Method: X Mud Rotary Air Rotary Cable
4/15/88 4/21/88 4/22/88
Spud Date Date Reached TD Completion Date
4,335'
Total Depth PBTD

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water:
Division of Water Resources Permit #
Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Section Twp Rge East West
X Surface Water 2000 Ft North from Southeast Corner 1100 Ft West from Southeast Corner (Stream, pond etc) Sec 9 Twp 17S Rge 21 East X West
Rob. McGaughey, McCracken, Ks 67556
Other (explain)
(purchased from city, R.W.D. #)

Amount of Surface Pipe Set and Cemented at 257 feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set feet
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt
Cement Company Name
Invoice #
AIT II DFD

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. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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 *Walter M. Buder*
Title OPERATOR Date 5/11/88
Subscribed and sworn to before me this 11 day of May 1988
Notary Public *Mark P. Krinsky*

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Time Log Received
Distribution
KCC SWD/Rep NGPA
KGS Plug Other (Specify)

Sec 20 Twp 17 Rge 21 W

OFFICIAL SEAL
MARK P. KRINSKY
NOTARY PUBLIC - CALIFORNIA
CITY AND COUNTY OF SAN FRANCISCO
My Commission expires Jan. 12, 1990

07-01-1988

Operator Name William N. Bucklin, III Lease Name Brenner Well # 3

Sec. 20 Twp. 17S Rge. 21W East West County Ness

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
HEEBNER	3683	
TORONTO	3703	
LANSING	3730	
BASE KC	4002	
MARM	4038	
PAWNEE	4104	
FR SCOTT	4192	
CITROKEE	4204	
REWORK MISS	4266	
MISS	4293	

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"		264'	60/40 Poz	160	2% Gel 3% CC

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

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	Gas	Water	Gas-Oil Ratio	Gravity
	Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed Commingled

RED TIGER DRILLING COMPANY

DAILY DRILLING REPORT

Fe.

9 FARM *Beaver* WELL NO. *3* COMPANY *Wm. N. Buckner III* PUSHER *M. WAGNER* DATE *Apr 15 - 1928*

HOURS ENDING AT 7:30 A.M.		FOR 8 HOURS ENDING AT 3:30 P.M.		FOR 8 HOURS ENDING AT 11:30 P.M.	
HOURS RUN:	HOURS LOST:	HOURS RUN:	HOURS LOST:	HOURS RUN: <i>3 1/2</i>	HOURS LOST: <i>2 1/2</i>
CAUSE OF TIME LOST:		CAUSE OF TIME LOST:		CAUSE OF TIME LOST: <i>BLOW</i>	

RECORD OF HOLE MADE			RECORD OF HOLE MADE			RECORD OF HOLE MADE				
TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
							<i>0</i>	<i>273</i>	<i>SHALS</i>	

(KIND)	(NO.)	BIT RUN (KIND)	(NO.)	BIT RUN (KIND)	(NO.)
HOURS RUN ROCK BIT:		NO. OF HOURS RUN ROCK BIT:		NO. OF HOURS RUN ROCK BIT:	<i>3 1/2</i>
SIZE	SET NO.	CONE NOS.	SIZE	SET NO.	<i>1</i>
OF PIPE IN HOLE	SIZE	JOINTS OF PIPE IN HOLE	SIZE	JOINTS OF PIPE IN HOLE	<i>12 1/4</i>
MUD USED (KIND AND AMOUNT):		MUD USED (KIND AND AMOUNT):		MUD USED (KIND AND AMOUNT):	
AQUAGEL		AQUAGEL		AQUAGEL	<i>- 25 GEL</i>
HULLS		HULLS		HULLS	<i>- 3 HULLS</i>
ZEOGEL		ZEOGEL		ZEOGEL	<i>- 2 LIME</i>
OTHER		OTHER		OTHER	

WORK (CORING, CIRCULATING, ETC.): <i>work out</i>	DAY WORK (CORING, CIRCULATING, ETC.): <i>Load out</i>	DAY WORK (CORING, CIRCULATING, ETC.): <i>Finish Rigging up</i>
	<i>Pass - Deck and drawworks</i>	<i>Run 6 1/2" 2 7/8" CASING #1-3 268</i>

RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):
		<i>557 1/2</i>
REMARKS:	REMARKS:	REMARKS:

NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<i>HARLEY</i>	<i>Galvin Gasell</i>	<i>TERRY</i>
<i>STONE</i>	<i>KEVIN BROWN</i>	<i>WAGNER</i>
<i>TRAVIS</i>	<i>FRANCIS</i>	<i>RENN</i>

RED TIGER DRILLING COMPANY DAILY DRILLING REPORT

NO. 9 FARM BEEDER WELL NO. 3 COMPANY WM. N. Bucklin III PUSHER Mike Wagner DATE 4/16/88

FOR 8 HOURS ENDING AT 7:30 A.M.	FOR 8 HOURS ENDING AT 3:30 P.M.	FOR 8 HOURS ENDING AT 11:30 P.M.
HOURS RUN: <u>0</u> HOURS LOST: <u>8</u>	HOURS RUN: <u>5</u> HOURS LOST: <u>3</u>	HOURS RUN: <u>6³/₄</u> HOURS LOST: <u>1¹/₄</u>
CAUSE OF TIME LOST:	CAUSE OF TIME LOST: <u>below</u>	CAUSE OF TIME LOST: <u>BELOW</u>

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
<u>73</u>				<u>273</u>	<u>830</u>	<u>shale-redbols</u>		<u>830</u>	<u>1518</u>	<u>SHALES & SANDS</u>	
								<u>1518</u>	<u>1554</u>	<u>loam</u>	
								<u>1554</u>	<u>1590</u>	<u>SHALES & SANDS</u>	

BIT RUN (KIND) _____ (NO.) _____	BIT RUN (KIND) <u>J22</u> (NO.) <u>1</u>	BIT RUN (KIND) <u>RR. J22</u> (NO.) <u>1</u>
NO. OF HOURS RUN ROCK BIT:	NO. OF HOURS RUN ROCK BIT: <u>5</u>	NO. OF HOURS RUN ROCK BIT:
CONE NOS. _____ SIZE _____ SET NO. _____	CONE NOS. <u>NX872</u> SIZE <u>7¹/₈</u> SET NO. <u>1/1</u>	CONE NOS. <u>NX872</u> SIZE <u>7¹/₈</u> SET NO. <u>1</u>
JOINTS OF PIPE IN HOLE _____ SIZE _____	JOINTS OF PIPE IN HOLE _____ SIZE <u>4¹/₂</u>	JOINTS OF PIPE IN HOLE _____ SIZE <u>4¹/₂</u>
MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):
AQUAGEL _____	AQUAGEL _____	AQUAGEL _____
HULLS _____	HULLS _____	HULLS _____
ZEOGEL _____	ZEOGEL _____	ZEOGEL _____
OTHER _____	OTHER _____	OTHER _____

DAY WORK (CORING, CIRCULATING, ETC.): <u>SURFACE WORK</u>	DAY WORK (CORING, CIRCULATING, ETC.): <u>add cement 1/2 hr. do 11 plug @ 7:40 am</u>	DAY WORK (CORING, CIRCULATING, ETC.): <u>VRIG @ 859¹/₄</u>
REMARKS: <u>Charged oil Pump (Filters)</u>	REMARKS:	REMARKS: <u>Replaced Packing - OFF VALVE Pump #4</u>

CASING RECORD (SIZE, CEMENT, ETC.): <u>8¹/₈ set @ 264'</u>	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):
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REMARKS: <u>Plug down @ 11:40 P.M. cemented w/ 160 # 60/40 2% gel 3% CC</u>	REMARKS:	REMARKS:
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NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<u>HARLEY PEARSON</u> 8	<u>Colton Caschler</u> 8	<u>TERRY LONES</u> 8
<u>Steve KICKER</u> 8	<u>KEVIN BROWN</u> 8	<u>Wayne Spire</u> 8
<u>BRUCE (KIPER)</u> 8	<u>DEANIS FINNEY</u> 8	<u>Benny MILLER</u> 8

RED TIGER DRILLING COMPANY
DAILY DRILLING REPORT

9 FARM Beaver WELL NO. 3 COMPANY Wm. Bucklin III PUSHER Mike Waggoner I DATE 4/17/87 Sun

HOURS ENDING AT 7:30 A.M.	FOR 8 HOURS ENDING AT 9:30 P.M.	FOR 8 HOURS ENDING AT 11:30 P.M.
HOURS RUN: <u>7 1/4</u> HOURS LOST: <u>3/4</u>	HOURS RUN: <u>6 3/4</u> HOURS LOST: <u>1 1/4</u>	HOURS RUN: <u>6 1/4</u> HOURS LOST: <u>1 1/4</u>
CAUSE OF TIME LOST: <u>Below</u>	CAUSE OF TIME LOST: <u>below</u>	CAUSE OF TIME LOST: <u>Below</u>

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
0	2190	Sand Shale	1000	2190	2515	shale	325	2515	2721	Shales	

BIT RUN (KIND) <u>RR J22</u> (NO.) <u>1</u>	BIT RUN (KIND) <u>J22</u> (NO.) <u>1</u>	BIT RUN (KIND) <u>J22</u> (NO.) <u>1</u>
HOURS RUN ROCK BIT: <u>19</u>	NO. OF HOURS RUN ROCK BIT: <u>25 3/4</u>	NO. OF HOURS RUN ROCK BIT: <u>32</u>
CONE NOS. <u>NR872</u> SIZE <u>7 1/8</u> SET NO. <u>1</u>	CONE NOS. <u>NR872</u> SIZE <u>7 1/8</u> SET NO. <u>1</u>	CONE NOS. <u>NR872</u> SIZE <u>7 1/8</u> SET NO. <u>1</u>
JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	JOINTS OF PIPE IN HOLE SIZE	JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>

MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):
AQUAGEL	AQUAGEL <u>108-951</u>	AQUAGEL
HULLS	HULLS <u>6 - caustic</u>	HULLS
ZEOGEL	ZEOGEL <u>6 - 1.99 units</u>	ZEOGEL
OTHER	OTHER <u>33 - soda ash</u>	OTHER

DAY WORK (CORING, CIRCULATING, ETC.): <u>11.59 Rg 1/4, 5' jet 1/4, 1/4 Convl</u>	DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): <u>Rig @ 2536 1/4 Bit Tap Strapping Pipe 1 1/2</u>
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CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):
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REMARKS:	REMARKS: <u>Rig Pits #2228'</u>	REMARKS:
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NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<u>HARLEY PEARD</u> 8	<u>Galen Gaschler</u> 8	<u>TERRY JONES</u> 8
<u>STEVE KROEMER</u> 8	<u>KEVIN BROWN</u> 8	<u>Wayne Spivey</u> 8
<u>ELVE CASPER</u> 8	<u>DENNIS FURNESS</u> 8	<u>REYNOLD MILLER</u> 8
<u>gary hewner</u> 8 DRILLER	SIGNED <u>Mike Waggoner</u> DRILLER	SIGNED <u>ROBERT MEYERS</u> DRILLER

JUL 1983
 1083

RED TIGER DRILLING COMPANY
DAILY DRILLING REPORT

9 FARM Bremer WELL NO. 3 COMPANY Wm. Bucklin III PUSHER Mike Waggoner DATE 4/18/88 MO

HOURS ENDING AT 7:30 A.M.	FOR 8 HOURS ENDING AT 3:30 P.M.	FOR 8 HOURS ENDING AT 11:30 P.M.
RUN: 6 HOURS LOST: 2	HOURS RUN: 7 HOURS LOST: 1	HOURS RUN: 7 1/2 HOURS LOST: 1/2
CAUSE OF TIME LOST: Below	CAUSE OF TIME LOST: below	CAUSE OF TIME LOST: Below

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
2870		Shale 1/4 Sand	149	2820	3100	shale	230	3100	3350	SHALES	250

BIT RUN (KIND) Wm. 52CF (NO.) 2	BIT RUN (KIND) Wm 52CF (NO.) 2	BIT RUN (KIND) Wm 52CF (NO.) 2
HOURS RUN ROCK BIT: 6	NO. OF HOURS RUN ROCK BIT: 13	NO. OF HOURS RUN ROCK BIT: 20 1/2
OS. M77646 SIZE 7 1/8 SET NO. 2	CONE NOS. M77646 SIZE 7 3/4 SET NO. 2	CONE NOS. M77646 SIZE 7 7/8 SET NO. 2
JOINTS OF PIPE IN HOLE SIZE 4 1/2	JOINTS OF PIPE IN HOLE SIZE 4 1/2	JOINTS OF PIPE IN HOLE SIZE 4 1/2

MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):
AQUAGEL	AQUAGEL	AQUAGEL
HULLS	HULLS	HULLS
ZEOGEL	ZEOGEL	ZEOGEL
OTHER	OTHER	OTHER

DAY WORK (CORING, CIRCULATING, ETC.): Go back to bottom T - washed 10' on bottom @ 12:10 1 1/4 hrs 2847 yd 1 1/4 convt 1/4	DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): Rig 3126 1/4 BT #2 @ 3314 1/4
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CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):
REMARKS:	REMARKS:	REMARKS:

NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
Harley Pears 8	Calvin Caschler 8	TERRY JONES 8
Steve Koerner 8	Kenneth Brown 8	W. J. Spivey 8
Bruce Casper 8	Donnis Finney 8	Reed Miller 8
Jerry Bremer 8 DRILLER	SIGNED Mike Waggoner DRILLER	SIGNED Rooney Hayes 8 DRILLER

RED TIGER DRILLING COMPANY DAILY DRILLING REPORT

9 FARM Boener WELL NO. 3 COMPANY Wm Biehn 911 PUSHER Mike Wagoner DATE 4/19/88 Tue

HOURS ENDING AT 7:30 A.M.	FOR 8 HOURS ENDING AT 3:30 P.M.	FOR 8 HOURS ENDING AT 11:30 P.M.
HOURS RUN: <u>7 1/2</u> HOURS LOST: <u>1/2</u>	HOURS RUN: <u>6 1/2</u> HOURS LOST: <u>1 1/2</u>	HOURS RUN: <u>7 1/2</u> HOURS LOST: <u>1/2</u>
CAUSE OF TIME LOST: <u>Below</u>	CAUSE OF TIME LOST: <u>below</u>	CAUSE OF TIME LOST:

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
3510	3510	Shale	210	3560	3765	shale - lime	205	3765	3925	SUBS + LIME	160

BIT RUN (KIND) <u>WMS2CF</u> (NO.) <u>2</u>	BIT RUN (KIND) <u>WMS2CF</u> (NO.) <u>2</u>	BIT RUN (KIND) <u>WMS2CF</u> (NO.) <u>2</u>
HOURS RUN ROCK BIT: <u>28</u>	NO. OF HOURS RUN ROCK BIT: <u>34 1/2</u>	NO. OF HOURS RUN ROCK BIT: <u>42</u>
NO. <u>M77646</u> SIZE <u>7 7/8</u> SET NO. <u>2</u>	CONE NOS. <u>M77646</u> SIZE <u>7 7/8</u> SET NO. <u>2</u>	CONE NOS. <u>M77646</u> SIZE <u>7 7/8</u> SET NO. <u>2</u>
JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>
MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):
AQUAGEL	AQUAGEL <u>28-gal</u>	AQUAGEL
HULLS	HULLS <u>2-caustic</u>	HULLS
ZEOGEL	ZEOGEL <u>2-liquit</u>	ZEOGEL
OTHER	OTHER <u>1-soda ash</u>	OTHER
DAY WORK (CORING, CIRCULATING, ETC.): <u>CONN 1/4</u>	DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): <u>VRIG @ 378 1/4</u>
CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):

REMARKS: 6.5' lost pit loss mud displac. ... 2 3575' lost 1 1/2 hrs.

NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<u>HARLEY PONS</u>	<u>Calvin Gaschler</u>	<u>Terrence Jones</u>
<u>STEVE KROENER</u>	<u>ROVIN BROWN</u>	<u>Wayne Spivey</u>
<u>EDDIE CASPER</u>	<u>Donnie Finney</u>	<u>Reginald Miller</u>
<u>Tommy ...</u>	<u>Wm Glasgow</u>	<u>Robert McMillan</u>

RED TIGER DRILLING COMPANY
DAILY DRILLING REPORT

9 FARM Bremer WELL NO. 3 COMPANY Wm Buehler III PUSHER Mike Waggoner DATE 4/20/88

HOURS ENDING AT 7:30 A.M.	FOR 8 HOURS ENDING AT 3:30 P.M.	FOR 8 HOURS ENDING AT 11:30 P.M.
RUN: <u>7 1/4</u> HOURS LOST: <u>3/4</u>	HOURS RUN: <u>7 1/2</u> HOURS LOST: <u>1/2</u>	HOURS RUN: <u>7 3/4</u> HOURS LOST: <u>1/4</u>
CAUSE OF TIME LOST: <u>Below</u>	CAUSE OF TIME LOST: <u>below</u>	CAUSE OF TIME LOST:

RECORD OF HOLE MADE				RECORD OF HOLE MADE				RECORD OF HOLE MADE			
FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET
	<u>4045</u>	<u>Shale - lime</u>	<u>120</u>	<u>4045</u>	<u>4175</u>	<u>lime</u>	<u>130</u>	<u>4175</u>	<u>4310</u>	<u>limes</u>	<u>135</u>

BIT RUN (KIND) <u>WM 52CF</u> (NO.) <u>2</u>	BIT RUN (KIND) <u>WM 52CF</u> (NO.) <u>2</u>	BIT RUN (KIND) <u>WM 52CF</u> (NO.) <u>2</u>
HOURS RUN ROCK BIT: <u>49 1/4</u>	NO. OF HOURS RUN ROCK BIT: <u>56 3/4</u>	NO. OF HOURS RUN ROCK BIT: <u>64 1/2</u>
CON. NO. <u>M77646</u> SIZE <u>7 7/8</u> SET NO. <u>2</u>	CON. NO. <u>M77646</u> SIZE <u>7 7/8</u> SET NO. <u>2</u>	CON. NO. <u>M77646</u> SIZE <u>7 7/8</u> SET NO. <u>2</u>
JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>	JOINTS OF PIPE IN HOLE SIZE <u>4 1/2</u>

MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):	MUD USED (KIND AND AMOUNT):
AQUAGEL <u>2 caustic</u>	AQUAGEL	AQUAGEL - <u>35 GEL</u>
HULLS <u>3 lignite</u>	HULLS	HULLS - <u>1/2 caustic</u>
ZEOGEL <u>3 dispersant</u>	ZEOGEL	ZEOGEL - <u>1/2 LIGNITE</u>
OTHER	OTHER	OTHER - <u>5 HULLS</u>

DAY WORK (CORING, CIRCULATING, ETC.): <u>2935 P. 1/4</u>	DAY WORK (CORING, CIRCULATING, ETC.):	DAY WORK (CORING, CIRCULATING, ETC.): <u>Rico 418 1/4</u>
<u>298 yd III - add - 1000 - mix 1/4</u>		
<u>concrete 1/4</u>		

CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):	CASING RECORD (SIZE, CEMENT, ETC.):
REMARKS:	REMARKS: <u>Rig</u>	REMARKS:

NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<u>Harley Penn</u>	<u>Carlton Caschler</u> 8	<u>Ed Mueller</u> 8
<u>Steve Kipper</u>	<u>Kenneth Brown</u> 8	<u>Wayne Smith</u> 8
<u>Randy Campbell</u>	<u>Donnis Finney</u> 8	<u>Randy Miller</u> 8
<u>Steve ...</u>	SIGNED <u>Mike Waggoner</u> DRILLER	SIGNED <u>Rosney Meyers</u> DRILLER

DAILY DRILLING REPORT

9 FARM Bremer WELL NO. 3 COMPANY Wm Bucklin PUSHER Mike Wagon DATE 4/21/88

8 HOURS ENDING AT 7:30 A.M.
 HOURS RUN: 3/4 HOURS LOST: 7 1/4
 CAUSE OF TIME LOST: Below

FOR 8 HOURS ENDING AT 3:30 P.M.
 HOURS RUN: 1/4 HOURS LOST: 7 3/4
 CAUSE OF TIME LOST: Below

FOR 8 HOURS ENDING AT 11:30 P.M.
 HOURS RUN: 0 HOURS LOST: 8
 CAUSE OF TIME LOST: Below

RECORD OF HOLE MADE

FROM	TO	FORMATION	FEET
4325		Lime	
		Circ. 1 3/4 hrs	
		Log 6	
		(7 1/4 hr Co Time)	

RECORD OF HOLE MADE

FROM	TO	FORMATION	FEET
4325	4335	Lime	
		7 3/4 hrs Co Time	
		1 1/4 hrs CFS	
		6 hrs DST 1 1/2 Trip in Log	

RECORD OF HOLE MADE

FROM	TO	FORMATION	FEET
4335	4335	TD.	
		4 hrs Co Time	
		3 hrs DST #1	
		1 hrs W.O. Order	

BIT RUN (KIND) Wm 53CF (NO.) 2
 HOURS RUN ROCK BIT: 65 1/4
 CONE NOS. M77646 SIZE 7 1/8 SET NO. 2
 JOINTS OF PIPE IN HOLE SIZE 4 1/2

BIT RUN (KIND) Wm 53CF (NO.) 2
 NO. OF HOURS RUN ROCK BIT: 65 1/4
 CONE NOS. M77646 SIZE 7 1/8 SET NO. 2
 JOINTS OF PIPE IN HOLE SIZE 4 1/2

BIT RUN (KIND) (NO.)
 NO. OF HOURS RUN ROCK BIT:
 CONE NOS. SIZE SET NO.
 JOINTS OF PIPE IN HOLE SIZE

MUD USED (KIND AND AMOUNT):
 AQUAGEL 18
 HULLS
 ZEOGEL
 OTHER

MUD USED (KIND AND AMOUNT):
 AQUAGEL
 HULLS
 ZEOGEL
 OTHER

MUD USED (KIND AND AMOUNT):
 AQUAGEL
 HULLS
 ZEOGEL
 OTHER

DAY WORK (CORING, CIRCULATING, ETC.):
 Drill to 4325' Circ
 and for Log - out w/ bit @ 1:15 AM
 Log complete @ 5:15 AM

DAY WORK (CORING, CIRCULATING, ETC.):
 Finished going
 in hole w/ bit @ 8:15 AM
 and hit 1/4 hr. CFS @ 4335'

DAY WORK (CORING, CIRCULATING, ETC.):
 Pull Test out
 @ 6:25 PM W.O. on
 Pipe 12' Log Down

CASING RECORD (SIZE, CEMENT, ETC.):
 back to bottom
 REMARKS: Mix Mud for Log -

CASING RECORD (SIZE, CEMENT, ETC.):
 1 1/2 hrs.
 DST #1 4270 to 4335'
 op 15 min strong blow
 REMARKS: 1st op 15
 51 30
 op 30
 ST 30

CASING RECORD (SIZE, CEMENT, ETC.):
 REMARKS:

NAME OF EMPLOYEE
 Harley Peers 8
 Steve Korman 8
 John J. [unclear] 8
 Jerry Koerner 8
 DRILLER

NAME OF EMPLOYEE
 GALEN GASCHLER 8
 KEVIN BROWN 8
 DENNIS FINNESHY 8
 SIGNED Mike Wagon 8
 DRILLER

NAME OF EMPLOYEE
 Ed [unclear] 8
 Wayne [unclear] 8
 Brent Miller 8
 SIGNED Rodney [unclear] 8
 DRILLER

RED TIGER DRILLING COMPANY
DAILY DRILLING REPORT

FARE Bremer WELL NO. 3 COMPANY Wm. Bucklin III PUSHER Mike Wagoner DATE 4/20/88 Fri

8 HOURS ENDING AT 7:30 A.M. FOR 8 HOURS ENDING AT 3:30 P.M. FOR 8 HOURS ENDING AT 11:30 P.M.

HOURS LOST: 8 HOURS RUN: HOURS LOST: HOURS RUN: HOURS LOST: HOURS RUN:

TIME LOST: Balance CAUSE OF TIME LOST: CAUSE OF TIME LOST:

RECORD OF HOLE MADE			RECORD OF HOLE MADE			RECORD OF HOLE MADE				
TO	FORMATION	FEET	FROM	TO	FORMATION	FEET	FROM	TO	FORMATION	FEET

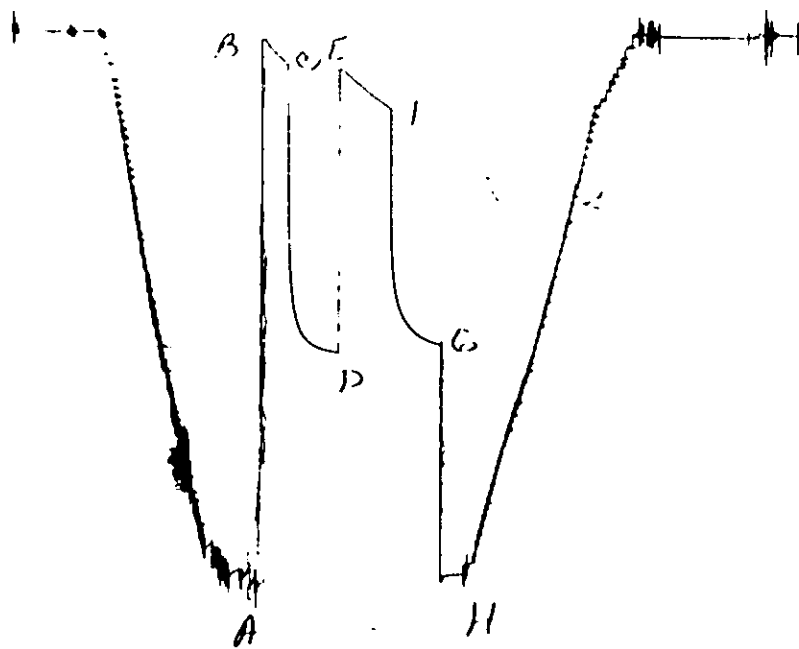
NO.	(NO.)	BIT RUN (KIND)	(NO.)	BIT RUN (KIND)	(NO.)
NO. OF HOURS RUN ROCK BIT:		NO. OF HOURS RUN ROCK BIT:		NO. OF HOURS RUN ROCK BIT:	
SIZE	SET NO.	CONE NOS.	SIZE	SET NO.	CONE NOS.
PIPE IN HOLE		PIPE IN HOLE		PIPE IN HOLE	
KIND AND AMOUNT:		MUD USED (KIND AND AMOUNT):		MUD USED (KIND AND AMOUNT):	
AQUAGEL		AQUAGEL		AQUAGEL	
HULLS		HULLS		HULLS	
ZEOGEL		ZEOGEL		ZEOGEL	
OTHER		OTHER		OTHER	

Alfred Steve D...
CORING, CIRCULATING, ETC.): lay down day DAY WORK (CORING, CIRCULATING, ETC.): TEAR DOWN
load - Run in plugging 5th Get Case: For Tanks
run - 2:45 AM plugging →

ORD (SIZE, CEMENT, ETC.): Completed CASING RECORD (SIZE, CEMENT, ETC.): Work in Tanks

1 50 sks @ 1530'
70 sks @ 780'
40 sks @ 270'
10 sks @ 40'
25 sks Rot hulls
185 sks @ 40 pax 6 logs

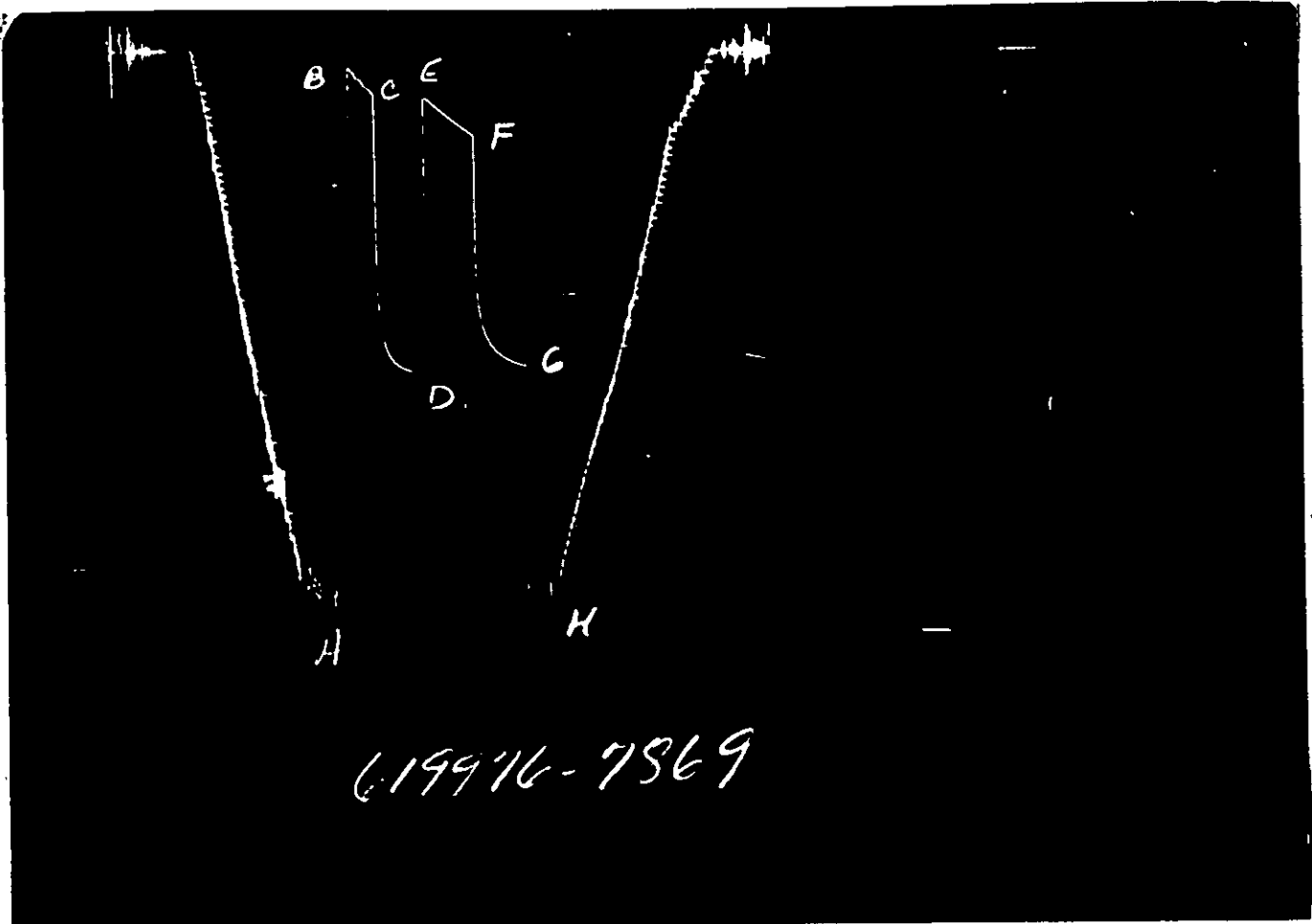
NAME OF EMPLOYEE	NAME OF EMPLOYEE	NAME OF EMPLOYEE
<u>Harley Reed</u> 3	<u>Galeo Casarez</u> 8	<u>Ed Newkirk</u> 8
<u>Steve Harmon</u> 7	<u>David Brown</u> 8	<u>Wayne Trace</u> 8
<u>John Johnson</u> 8	<u>David Finner</u> 8	<u>David Miller</u> 8
<u>Jimmy Keerner</u> 8 DRILLER	SIGNED <u>John Johnson</u> DRILLER	SIGNED <u>Rosney Meyers</u> DRILLER



619976-7870

GAUGE NO: 7870 DEPTH: 4255.0 BLANKED OFF: NQ HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2093	2067.8			
B	INITIAL FIRST FLOW	40	29.8			
C	FINAL FIRST FLOW	130	127.0	15.0	15.5	F
C	INITIAL FIRST CLOSED-IN	130	127.0			
D	FINAL FIRST CLOSED-IN	1210	1231.5	30.0	29.8	C
E	INITIAL SECOND FLOW	140	143.0			
F	FINAL SECOND FLOW	301	296.9	30.0	30.0	F
F	INITIAL SECOND CLOSED-IN	301	296.9			
G	FINAL SECOND CLOSED-IN	1190	1200.2	30.0	29.8	C
H	FINAL HYDROSTATIC	2073	2074.8			



GAUGE NO: 7869 DEPTH: 4332.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2172	2127.1			
B	INITIAL FIRST FLOW	50	67.0	15.0	15.5	F
C	FINAL FIRST FLOW	160	170.4			
C	INITIAL FIRST CLOSED-IN	160	170.4	30.0	29.8	C
D	FINAL FIRST CLOSED-IN	1269	1260.2			
E	INITIAL SECOND FLOW	180	185.7	30.0	30.0	F
F	FINAL SECOND FLOW	341	333.0			
F	INITIAL SECOND CLOSED-IN	341	333.0	30.0	29.8	C
G	FINAL SECOND CLOSED-IN	1230	1229.2			
H	FINAL HYDROSTATIC	2132	2106.3			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MISSISSIPPI
 NET PAY (ft): _____
 GROSS TESTED FOOTAGE: 65.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 2227.0
 TOTAL DEPTH (ft): 4335.0
 PACKER DEPTH(S) (ft): 4270
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.30
 MUD VISCOSITY (sec): 43
 ESTIMATED HOLE TEMP. (°F): 120
 ACTUAL HOLE TEMP. (°F): 121 @ 4330.0 ft

TICKET NUMBER: 61997600
 DATE: 4-21-88 TEST NO: 1
 TYPE DST: OPEN HOLE
 HALLIBURTON CAMP: _____
NESS CITY
 TESTER: S. NUTTING
 WITNESS: W. N. BUCKLIN III
 DRILLING CONTRACTOR: _____
RED TIGER RIG #9

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES	
_____	_____ @ _____ °F	_____	ppm
_____	_____ @ _____ °F	_____	ppm
_____	_____ @ _____ °F	_____	ppm
_____	_____ @ _____ °F	_____	ppm
_____	_____ @ _____ °F	_____	ppm
_____	_____ @ _____ °F	_____	ppm

SAMPLER DATA

P_{sig} AT SURFACE: _____
 cu. ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: _____
 TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu. ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____

RECOVERED :

573 FEET OF MUDDY SALTWATER

MEASURED FROM TESTER VALVE

REMARKS :

TICKET NO: 61997600
 CLOCK NO: 28184 HOUR: 12



GAUGE NO: 7870
 DEPTH: 4255.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	29.8			
2	2.0	31.0	1.2		
3	4.0	47.9	16.9		
4	6.0	65.1	17.2		
5	8.0	78.9	13.9		
6	10.0	92.3	13.4		
7	12.0	105.7	13.4		
8	14.0	117.1	11.4		
C 9	15.5	127.0	9.8		
FIRST CLOSED-IN					
C 1	0.0	127.0			
2	2.0	974.2	847.2	1.8	0.936
3	4.0	1072.9	945.9	3.2	0.691
4	6.0	1126.7	999.7	4.3	0.554
5	8.0	1158.1	1031.2	5.3	0.469
6	10.0	1175.9	1049.0	6.1	0.407
7	12.0	1189.9	1063.0	6.8	0.359
8	14.0	1199.7	1072.7	7.3	0.323
9	16.0	1207.3	1080.4	7.9	0.293
10	18.0	1213.9	1085.9	8.3	0.269
11	20.0	1218.3	1091.3	8.7	0.248
12	22.0	1222.6	1095.6	9.1	0.231
13	24.0	1225.9	1099.0	9.4	0.216
14	26.0	1228.6	1101.6	9.7	0.203
15	28.0	1229.5	1102.6	10.0	0.191
D 16	29.8	1231.5	1104.6	10.2	0.182
SECOND FLOW					
E 1	0.0	143.0			
2	3.0	148.4	5.4		
3	6.0	168.7	20.3		
4	9.0	187.0	18.3		
5	12.0	204.4	17.4		
6	15.0	220.7	16.3		
7	18.0	237.5	16.9		
8	21.0	253.7	16.2		
9	24.0	268.3	14.6		
10	27.0	284.2	15.9		
F 11	30.0	296.9	12.8		
SECOND CLOSED-IN					
F 1	0.0	296.9			
2	2.0	969.7	672.8	2.0	1.367
3	4.0	1035.9	738.9	3.7	1.093
4	6.0	1079.2	782.2	5.3	0.935

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
5	8.0	1105.4	808.5	6.8	0.824
6	10.0	1125.0	828.1	8.2	0.743
7	12.0	1140.3	843.4	9.5	0.681
8	14.0	1153.0	856.1	10.7	0.628
9	16.0	1163.2	866.3	11.8	0.584
10	18.0	1171.8	874.8	12.9	0.547
11	20.0	1178.6	881.7	13.9	0.515
12	22.0	1185.0	888.0	14.8	0.486
13	24.0	1189.4	892.4	15.7	0.462
14	26.0	1193.7	896.7	16.5	0.439
15	28.0	1198.8	901.8	17.3	0.419
G 16	29.8	1200.2	903.2	18.0	0.402

REMARKS:

TICKET NO: 61997600
 CLOCK NO: 26733 HOUR: 12





















GAUGE NO: 7869
 DEPTH: 4332.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t \times \Delta P}$	$\log \frac{t \times \Delta P}{t \times \Delta P}$
FIRST FLOW					
B 1	0.0	67.0			
2	2.0	80.8	13.9		
3	4.0	96.7	15.8		
4	6.0	111.2	14.6		
5	8.0	121.0	9.8		
6	10.0	141.0	20.0		
7	12.0	149.4	8.4		
8	14.0	161.6	12.2		
C 9	15.5	170.4	8.8		
FIRST CLOSED-IN					
C 1	0.0	170.4			
2	2.0	967.8	797.4	1.8	0.940
3	4.0	1088.1	917.7	3.2	0.589
4	6.0	1146.9	976.4	4.3	0.555
5	8.0	1183.3	1012.9	5.3	0.467
6	10.0	1204.6	1034.2	6.1	0.407
7	12.0	1218.7	1048.3	6.8	0.359
8	14.0	1228.2	1057.8	7.3	0.323
9	16.0	1236.6	1066.2	7.9	0.293
10	18.0	1243.2	1072.8	8.3	0.269
11	20.0	1247.4	1077.0	8.7	0.249
12	22.0	1251.2	1080.7	9.1	0.231
13	24.0	1254.4	1084.0	9.4	0.216
14	26.0	1256.8	1086.3	9.7	0.203
15	28.0	1259.1	1088.7	10.0	0.191
D 16	29.8	1260.2	1089.7	10.2	0.182
SECOND FLOW					
E 1	0.0	185.7			
2	3.0	195.3	9.6		
3	6.0	212.0	16.7		
4	9.0	229.2	17.2		
5	12.0	245.0	15.7		
6	15.0	261.4	16.4		
7	18.0	276.5	15.2		
8	21.0	292.8	16.2		
9	24.0	306.1	13.3		
10	27.0	320.1	14.1		
F 11	30.0	333.0	12.8		
SECOND CLOSED-IN					
F 1	0.0	333.0			
2	2.0	975.4	642.5	1.9	1.385
3	4.0	1060.6	727.6	3.7	1.091
4	6.0	1104.6	771.7	5.3	0.930

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta P}{t \times \Delta P}$	$\log \frac{t \times \Delta P}{t \times \Delta P}$
SECOND CLOSED-IN - CONTINUED					
5	8.0	1133.8	800.8	6.8	0.823
6	10.0	1154.1	821.2	8.2	0.744
7	12.0	1169.8	836.9	9.5	0.679
8	14.0	1182.4	849.4	10.7	0.628
9	16.0	1192.4	859.4	11.8	0.584
10	18.0	1200.5	867.6	12.9	0.547
11	20.0	1208.0	875.0	13.9	0.514
12	22.0	1213.6	880.6	14.8	0.488
13	24.0	1218.8	885.9	15.7	0.461
14	26.0	1223.5	890.5	16.5	0.439
15	28.0	1227.1	894.2	17.3	0.419
G 16	29.8	1229.2	896.2	18.0	0.402

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4117.0	
50		IMPACT REVERSING SUB.....	5.000	2.250	1.0	4117.0
1		DRILL PIPE.....	4.500	3.826	124.0	
5		CROSSOVER.....	5.750	2.750	1.0	
12		DUAL CIP VALVE.....	5.000	0.870	6.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4253.0
80		AP RUNNING CASE.....	5.000	2.250	4.0	4255.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	6.750	1.530	6.0	4270.0
5		CROSSOVER.....	5.750	2.750	1.0	
5		CROSSOVER.....	5.750	2.750	1.0	
1		DRILL PIPE.....	4.500	3.826	31.0	
5		CROSSOVER.....	5.750	2.750	1.0	
5		CROSSOVER.....	5.750	2.750	1.0	
20		FLUSH JOINT ANCHOR.....	5.000	2.370	23.0	
83		HT-500 TEMPERATURE CASE.....	5.000		1.0	4330.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.0	4332.0
TOTAL DEPTH						4335.0