Appendix - 1-4
AP No. 92-1 Rio Bravo Oil Co.
Starbuck #2

DEC 6 1991
SCANNED

COMPANY: Rio Bravo Oil Company
WELL: Dupont De Nemours,E.I. #2
FIELD: S.W. Phoenix Lake
COUNTY: Orange STATE: Texas

Schlumberger
Phasor Induction-Density
Neutron GR

COUNTY: Orange
Field: S.W. Phoenix Lake
Location: See Remarks
Well: Dupont De Nemours,E.I.
Company: Rio Bravo Oil Company

LOCATION
See Remarks
Other Services: DIL MSFL CNL LDL
Elev.: K.B. 22.0 ft; D.F. 21.0 ft; G.L. 12.0 ft
Log Measured From: 20 ft. Above Perm. Datum
Drilling Measured From: K.B.
SECTION | TOWNSHIP | RANGE

Date: 4-20-91
Run Number: One
Depth-Driller: 9800 ft
Depth-Logger: 9800 ft
Bottom Logged Interval: 9800 ft
Top Log Interval: 4000 ft
Casing-Driller: 20 in @ 40 ft
Casing-Logger: 20 in @ 40 ft
Bit Size: 17.5 in
Type Fluid in Hole: Brine
Density: 9.6 lb/gal
Viscosity: 50 s
PH: 10.0
Fluid Loss: 12.0 cc
Source of Sample: Pit
Rm @ Measured Temperature: 0.130 @ 70 °F
Rmf @ Measured Temperature: 0.110 @ 70 °F
Rmc @ Measured Temperature: 0.080 @ 70 °F
Source: Rmf: Rmc: Measured
Rm @ BHT: 0.060 @ 200 °F
Max. Rec. Temp.: 200 °F
Equipment - Location: 5915 Cl
Recorded By: Wade / Flanery
Witnessed By: Hodder

	Run 1	Run 2	Run 3	Run 4
Type Log	Phasor Induction-SFL			
Bottom Driller	9800 ft			
Bottom Logger	9800 ft			
Top Log Interval	4000 ft			
Casing-Driller	20 in @ 40 ft			
Casing-Logger	20 in @ 40 ft			
Bit Size	17.5 in			
Type Fluid in Hole	Brine			
Density	9.6 lb/gal			
Viscosity	50 s			
PH	10.0			
Fluid Loss	12.0 cc			
Source of Sample	Pit			
Rm @ Measured Temperature	0.130 @ 70 °F			
Rmf @ Measured Temperature	0.110 @ 70 °F			
Rmc @ Measured Temperature	0.080 @ 70 °F			
Source: Rmf: Rmc:	Measured			
Rm @ BHT	0.060 @ 200 °F			
Max. Rec. Temp.	200 °F			
Equipment - Location	5915 Cl			
Recorded By	Wade / Flanery			
Witnessed By	Hodder			

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART WE SHALL BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE

OTHER SERVICES FOR RUN 1
DESCENT 1: None
DESCENT 2:
DESCENT 3:
DESCENT 4:
DESCENT 5:

OTHER SERVICES FOR RUN 2
DESCENT 1:
DESCENT 2:
DESCENT 3:
DESCENT 4:
DESCENT 5:

REMARKS: RUN NUMBER 1
The Density skid was wiped up from 7000 - 8100 ft. sheaves and the shaed
up skid caused the Density-Neutron crossover.

REMARKS: RUN NUMBER 2

Field Location: H.F. Black A-245
467 F.E.(E/Rver) & 4160 F.(EXT.) N A-125

RUN 1			RUN 2		
SERVICE ORDER #:	481445		SERVICE ORDER #:		
PROGRAM VERSION:	400-192		PROGRAM VERSION:		
FLUID LEVEL:	FT		FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1 | RUN 2

SURFACE EQUIPMENT
TCM-AB 618 NC1-B 1
NLS-RF GSR-LIV
NOS-YB TCM-AB 618
CNB-AB 3525

DOWNHOLE EQUIPMENT

TCC-B 64.4
ECH-KC 580
TCC-B 477
DTB stalu 61.4
TEL CART

SGT-L 60.5 61.4
SGH-H 1810
SGC-SA 286
SGD-UAB 2506
Gamma Ray

CNT-H 55.9
CNC-HA 1310
CNH-A 4413
NGR-F 2918
NPV-MF
BOW-SPR 1
CFTC 51.5
CNTC 51.0

LDT-D 48.7
DRB-C 3900
NSC-E 1721
LDS-AB 2983
PQD-G 2839
QSR-J 7349
PDH-L 2831

Caliper 33.9
LS 33.8
SS 33.3

DIT-E 31.2
DIS-HB 235
DIC-ER 231
MIV-ZA 231

SP Electr 10.3
Deep Indu 9.5
SFL Elect 6.5
Auxiliary 6.0
Medium In

Test Mate
Status
Tension 9.0
TOOL ZERO

MAXIMUM STRING DIAMETER 4.50 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

DP System Version: SEC-102

Output DLIS Files

DEFAULT DSTE .006 FIELD 22-MAR-1991 05:18 8450.5 FT 977.5 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 4786.18 F3
Cement Volume = 3556.58 F3 (assuming 5.50 IN casing O.D.)
Computed from 8440.0 FT to 1109.0 FT using data channel(s) CALI