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Please Type or Use Black Ink

OKLAHOMA CORPORATION COMMISSION
Oil & Gas Conservation Division
Post Office Box 52000
Oklahoma City, Oklahoma 73152-2000

Form 1023
Rev. 2007

1. API No. **049-24903**
2. OTC Prod. Unit No. **049-025529**
3. Date of Application **1/17/2013**

4. Application For (**check one**)
- [X] A. Commingle Completion in the Wellbore **(165:10-3-39)**
- [ ] B. Commingle Completion at the Surface **(165:10-3-39)**
- [ ] C. Multiple (Dual) Completion **(165:10-3-36)**
- [ ] D. Downhole Multiple Choke Assembly **(165:10-3-37)**

5. Operator Name	OTC/OCC No.	Email
Prime Operating Company	**18626**	slemons@primeenergy.com
Address: **5400 N. Grand Blvd, Suite 450**		Phone No.: **(405) 947-1091**
City: **Oklahoma City** / State: **Oklahoma**		Zip: **73112-5654**
6. Lease Name/Well No.: **S. H. Cowan #49**		FAX No.: **(405) 943-9368**
Location within Sec. (1/4 1/4 1/4 1/4): **E2-E2-SE-NW** / Sec: **15** / Twp: **1N** / Rge: **3W**		County: **Garvin**

8. The following facts are submitted:	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
A. Name of common source of supply	Pontotoc (Newberry)		Arbuckle
B. Top and bottom of pay section (perforations)	1492' - 1506'		1734' - 1744'
C. Type of production (oil or gas)	Oil		Oil
D. Method of production (flowing or art. lift)	Pumping		Pumping
E. Latest test data by zone (oil, gas, and water)	1.3 BOPD & 226.6 BWPD		0 BOPD & 240.3 BWPD
F. Wellhead or bottom hole pressure			
G. Spacing order number and size of unit	Unspaced		Unspaced
H. Increased density order number	NA		NA
I. Location exception order number and penalty	NA		NA

Oklahoma Corporation Commission
Oil & Gas Division
Approved

If 4A, 4B or 4D above, and size of the units under 8G above are not the same, have the different allocations been addressed? [ ] Yes [ ] No

9. List all operators with mailing addresses within 1/2 mile, producing from the above listed zones.

R&D Oil Company. Attn: George Dale P.O. Box 188, Elmore City, OK 73433

10. The operators listed above have been notifed and furnished a copy of this application. [X] Yes [ ] No
If no, an affidavit of mailing must be filed not later than five (5) days after submission of this application.

11. Classification of well (see OAC 165:10-13-2) [X] Oil [ ] Gas

RECEIVED
JAN 22 2013
OKLAHOMA CORPORATION COMMISSION

12. ATTACH THE FOLLOWING:
A. Correlation log section (porosity, resistivity, or gamma ray) with top and bottom of perforated invervals marked.
B. Diagrammatic sketch of the proposed completion of the well.
C. Plat showing the location of all wells within 1/2 mile producing from the zones listed above.
D. If 4B, 4C or 4D above, a Form 1024, Packer Setting Report, and a Form 1025 Packer Leakage Test.
E. If 4A, 4B or 4D above, and size of the units under 8G above are not the same, have the different allocations been addressed? [ ] Yes [ ] No

I hereby certify that I am authorized to submit this application which was prepared by me or under my supervision. The facts and proposals made herein are true correct and complete to the best of my knowledge and belief.

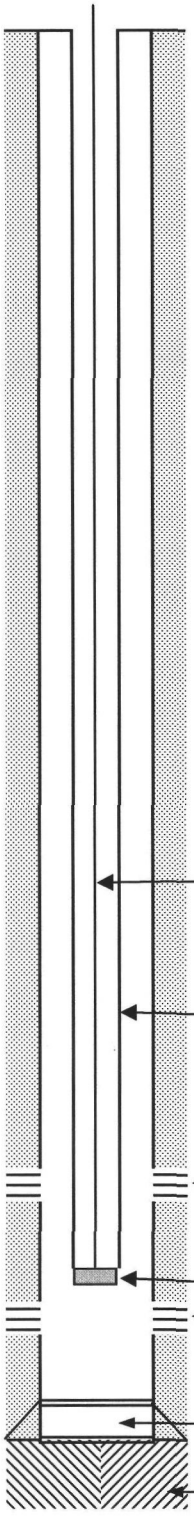
Signature | **Oklahoma District Manager** Title | **(405) 947-1091** Phone (AC/NO)

OCC USE ONLY

S.A
2,6,13

Staff Signature | Phone No. | Date | [X] Approved [ ] Rejected

S.H. COWAN 49



67 jts 3/4" Robs

54 jts 2 7/8" Tubing 1690'

1492 - 1506
Newberry D Formation

2.25" X 12' Pump Barrel & Plunger

1734 - 1744
Arbuckle Formation

5½ @ 1764

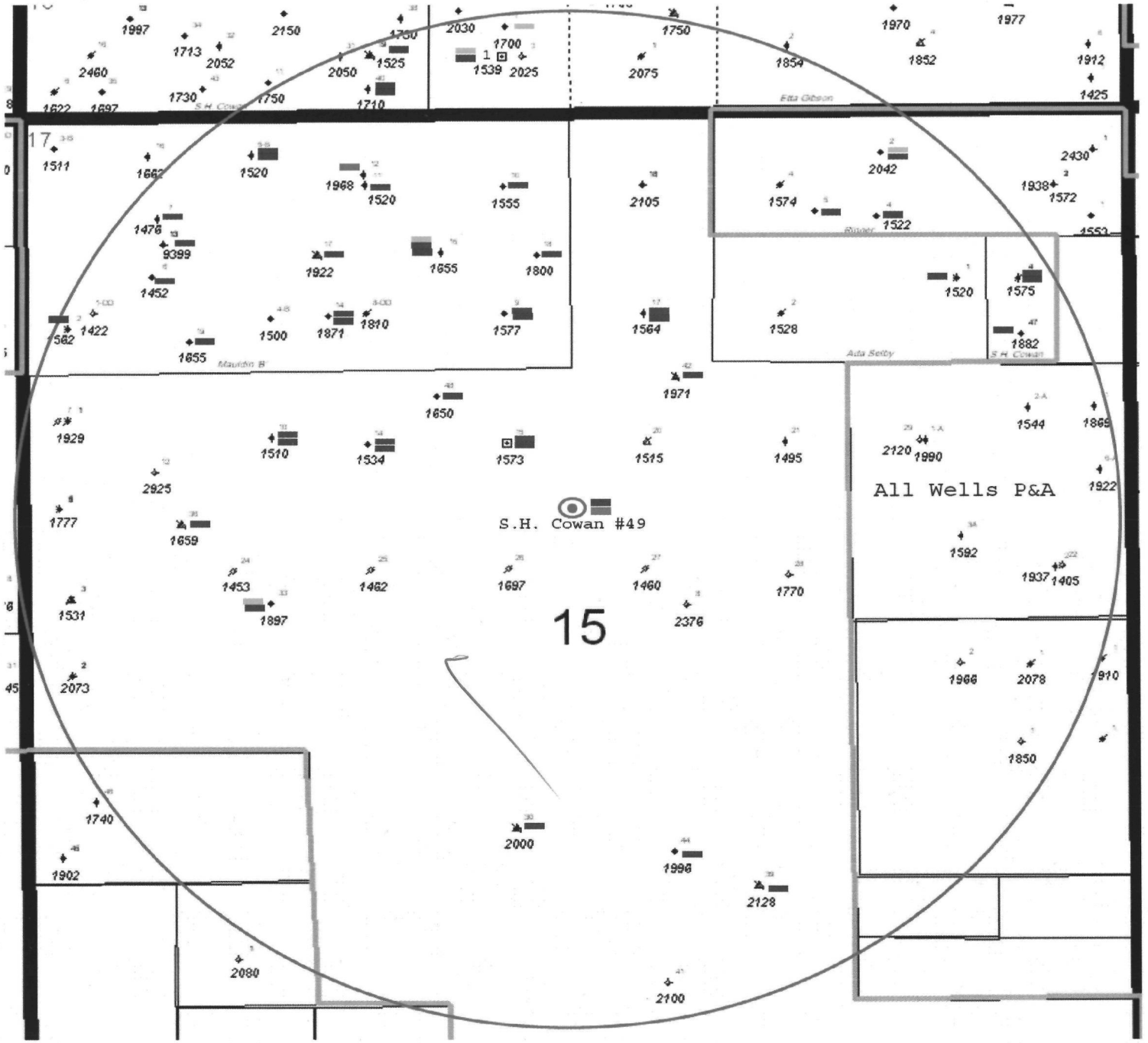
1767 Total Depth

UPDATE: 1/16/13
Prepared By: SEL

S. H. Cowan #49

Plat

Mauldin Formation
Robberson Formation
Newberry Formation
Skaggs Formation
Arbuckle Formation



AFFIDAVIT OF MAILING

Ref: Commingle Application, Form 1023
Application for authority to
Commingle Producing Formations in
S.H. Cowan No. 49. Located in
E/2 - E/2 – SE/4 – NW/4 of
Sec. 15 - T1N - R3W, Garvin
County, Oklahoma.

I, the undersigned Shawn Lemons, do hereby declare that on January 17, 2013 , I posted a true copy of the above referenced application in the regular U.S. Mail in sealed envelope addressed to the following:

OFFSET OPERATORS

R&D Oil Company
Attn: George Dale
Rt2. P.O. Box 188
Elmore City, OK. 73433

Shawn Lemons,
Oklahoma District Manager

Subscribed and sworn to before me this 17th day of January, 2013

TERESA J. WADDELL NOTARY # 07001650 EXP. 02/16/15 PUBLIC STATE OF OKLAHOMA

Notary Public

My Commission expires 2/16/15

January 15, 2013

R&D Oil Company
Attn: George Dale
Rt 2, P.O. Box 188
Elmore City, OK. 73433

RE: Commingling Application, Form #1023 on S. H. Cowan #49
Sec 15, T-1N, R-3W
Garvin County, Oklahoma

To Whom It May Concern:

Please find attached the OCC Form #1023, Commingling Application for S. H. Cowan #49 in the Newberry and Arbuckle formations.

Should you have any questions, please telephone me at (405) 947-1091 ext. 305. Thank you for your cooperation and assistance in this matter.

Sincerely,

PRIME OPERATING COMPANY

Shawn Lemons
Oklahoma District Manager

Enclosure

WELL RECORDS

OPERATOR: PRIME OPERATING COMPANY
OPERATOR NO.: 18626
LEASE NAME: S.H. COWAN
WELL NUMBER: 49
API NUMBER: 049-24903
PROD UNIT NO.: 049-025529
COUNTY: GARVIN
STATE: OKLAHOMA

LOCATION
SEC: 15 **TWP:** 1N **RNG:** 3W **FSL:** 660 **FWL:** 2637 E2 ¼ E2 ¼ SE ¼ NW ¼
ELEVATION: **GL:** 1014 **KB:** 1024 **Latitude:** 34,33'35"
Longitude: -97,30'06"

DRILLING DATA
SPUD DATE: 8/13/2012 **DRILLING FINISHED:** 8/18/12 **COMPLETION DATE:** 12/18/2012
DATE OF FIRST PRODUCTION: 10/15/2012 **INITIAL POTENTIAL:** 0.0 **OIL** 240.3 **WATER**
TOTAL DEPTH: 1767 **PBTD** 1758
CLASSIFICATION: OIL (OIL, GAS, DRY, INJ) **STATUS:** P (Pump, Flow, Active, SI, TA, P&A)

COMPLETION DATA

TYPE	SIZE	WT	FEET	SAX	TOP	HOLE	PULL	FEET
Conductor								
Surface								
Intermediate								
Production	5½	17#	1764	400	Surf	7 7/8		
Liner								
Liner								
Liner								
Liner								
Liner								
Liner								
Liner								

PERFORATIONS				OPN/CLS	
451MLDN		-			
451MLDN		-			
451RBRS		-			
451RBRS		-			
451NBRR		-			
451NBRRB		-			
451NBRRD	1492	-	1506	X	
451NBRR		-			
451SKGSU		-			
451SKGSL		-			
451ARBKL	1734	-	1744	X	

NOTES: 8/19/2012 Couldn't get open hole logs down, elected to run casing and cement. Will run Gamma Ray. 8/23/2012 Ran Gamma Ray, CCL & CBL, good bond to surface.
8/30/12 Perforated Newberry D 1492 to 1506 (14') 2 spf. 9/6/12 Balled off & Frac Nbrr D, 36 ball-sealers & 70 bbls Lease Wtr on ball off. Frac using 178 bbls Gelled Wtr & 7308# 12/20 sand. 10/15/12 Test Nbrr D @ 1.3 BO & 226.6 BW.
11/26/12 Perforated Arbuckle 1734 to 1744 (10') 2 spf. 12/12/12 Put well on pump to test Arbuckle. 1/7/13 Test Arbuckle @ 0 BO & 240.3 BW.

January 17, 2013

Oklahoma Corporation Commission
Oil & Gas Conservation Division
PO Box 52000-2000
Oklahoma City, OK 73152-2000

RE: Form 1023 Commingle Application
S.H. Cowan #49
Sec 15, T1N, R3W
Garvin County, OK

Dear Gentlemen:

I am enclosing the subject 1023 Form as to Commingle Application for S.H. Cowan #49 well, API # 049-24903. Due to wellbore condition, Prime was not able to run open hole logs due to wellbore condition, couldn't get down with logs to targeted intervals. Therefore Prime elected not to run openchole log but run cased hole logs, therefore after running casing and cementing well, Prime ran Gamma Ray, CLL & CBL so to correlate targeted formations to offset wells. Attached with 1023 is a copy of Gamma Ray, CLL & CBL and a copy of nearest offset well with target formations marked which correlate to S.H. Cowan #49 Gamma Ray. Also attached is required information such as Wellbore Diagram & Plat showing producing wells and formations within ½ mile of S.H. Cowan #49.

Should you have any questions or need further information, please do not hesitate to contact me by email slemons@primeenergy.com or call (405) 947-1091 extension 305.

Sincerely,

PRIME OPERATING COMPANY

Shawn Lemons
Oklahoma District Manager

Enclosure

Arbuckle Wireline

Logging Perforating Pipe Recovery

GAMMA-RAY/CCL CEMENT BOND LOG

Company PRIME OPERATING

Well S.H. COWAN # 49

Field EOLA

County GARVIN State OK

Location: API #: 049 - 24903

E/2 - E/2 - SE/4 - NW/4

~~CS/N/2~~ 15-1N-3W

SEC 15 TWP 1N RGE 3W

Other Services

Elevation

K.B. 1024

D.F.

G.L. 1014

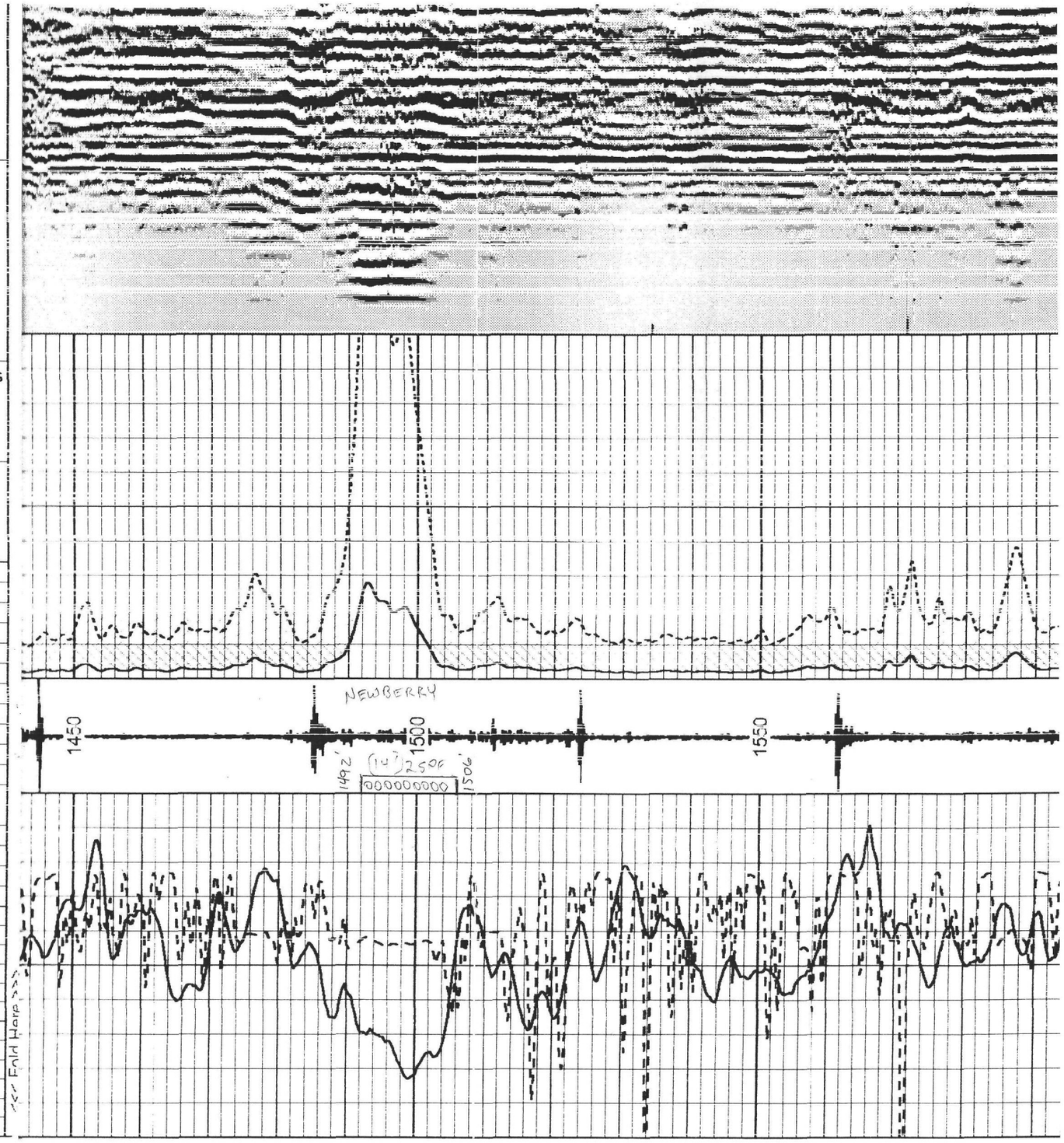
Company PRIME OPERATING
Well S. H. COWAN # 49
Field EOLA
County GARVIN
State OK

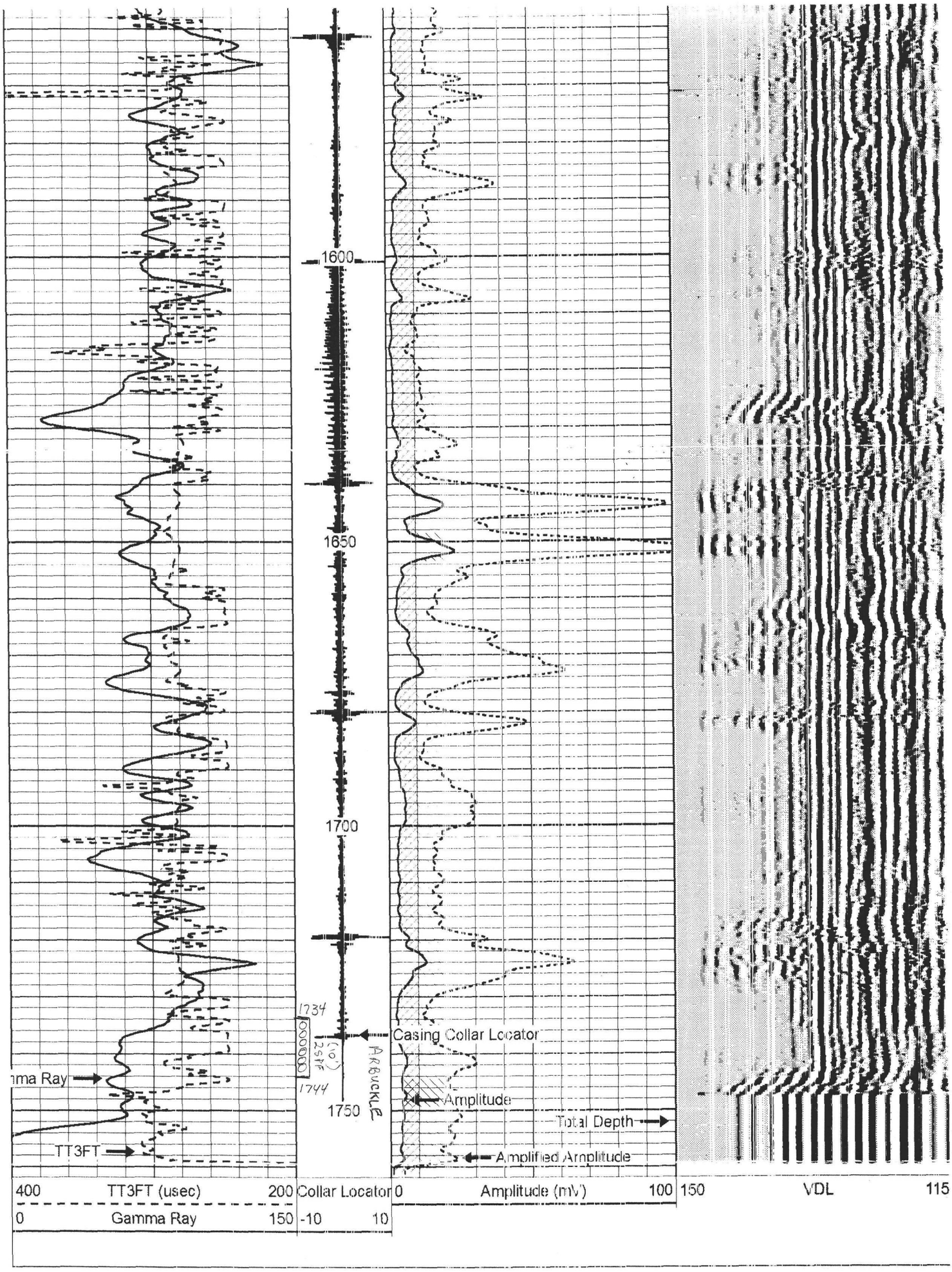
Permanent Datum	CL	Elevation
Log Measured From	KB	
Drilling Measured From	KB	

Date	8-23-12
Run Number	ONE
Depth Driller	~~1763~~ 1767
Depth Logger	1758
Bottom Logged Interval	1752
Top Log Interval	SURF
Open Hole Size	
Type Fluid	
Density / Viscosity	
Max. Recorded Temp.	
Estimated Cement Top	SURF
Time Well Ready	
Time Logger on Bottom	
Equipment Number	
Location	
Recorded By	D.BENSON
Witnessed By	L.LEMMONS

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	5.5		SURF	TD
Liner				




1600
1650
1700
1734
000000
25SPF
(10')
1744
ARBUCKLE
1750
Casing Collar Locator
Amplitude
Total Depth
Amplified Amplitude
mma Ray
TT3FT
400
TT3FT (usec)
200
0
Gamma Ray
150
Collar Locator
-10
10
0
Amplitude (mV)
100
150
VDL
115

Hayes Evaluation Logging & Perforating

GAMMA RAY DUAL INDUCTION LOG

Company PRIME OPERATING, INC.
Well S. H. COWAN NO. NO. 48
Field ROBBERSON
County GARVIN
State OKLAHOMA

Company PRIME OPERATING, INC.

Well S. H. COWAN NO. NO. 48

Field ROBBERSON

County GARVIN State OKLAHOMA

Location: API # : 049- 24539

NE4 NW4 SE4 NW4
1135 FS/4 & 1965 FW/4

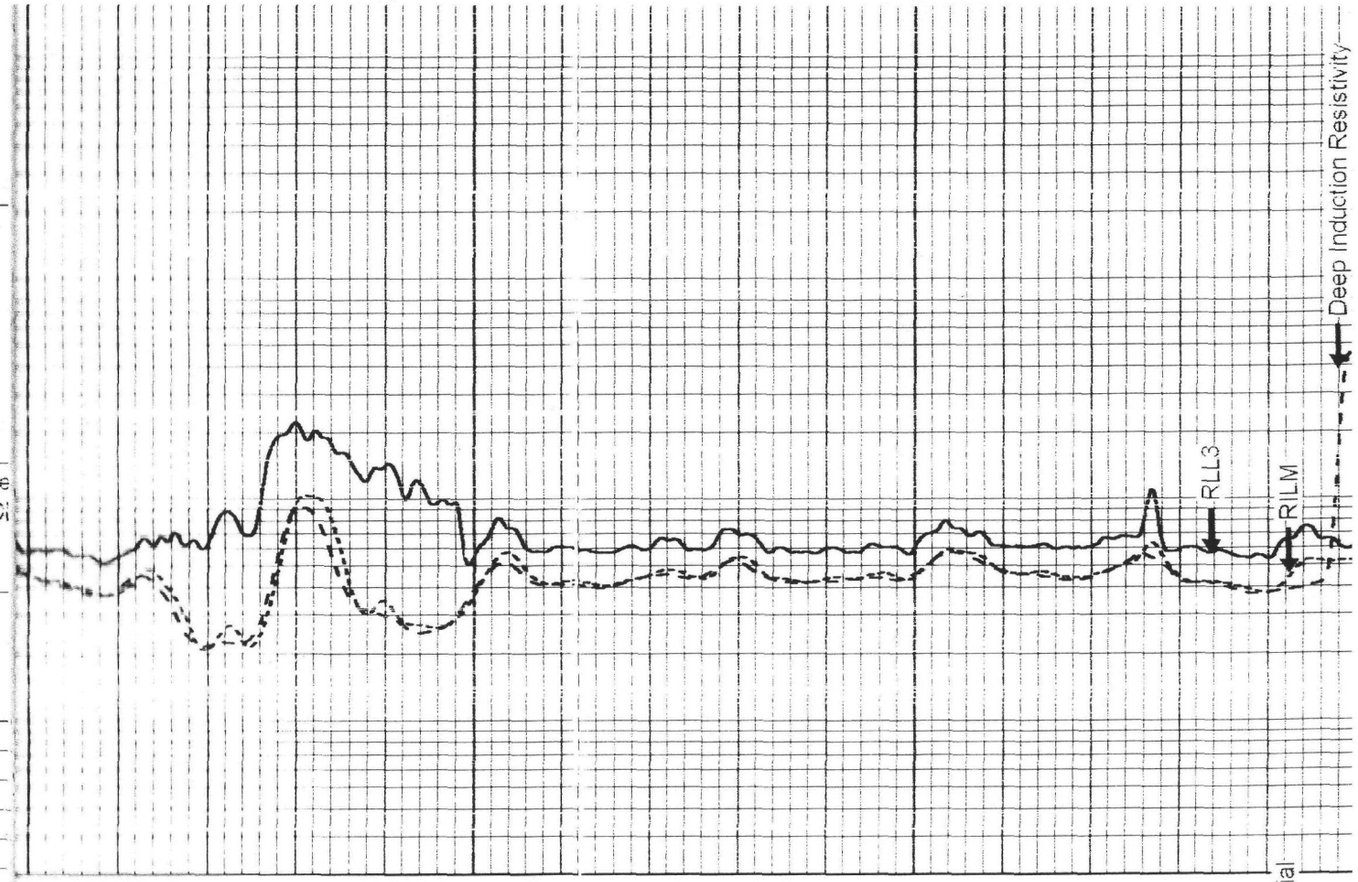
SEC 15 TWP 01N RGE 03W

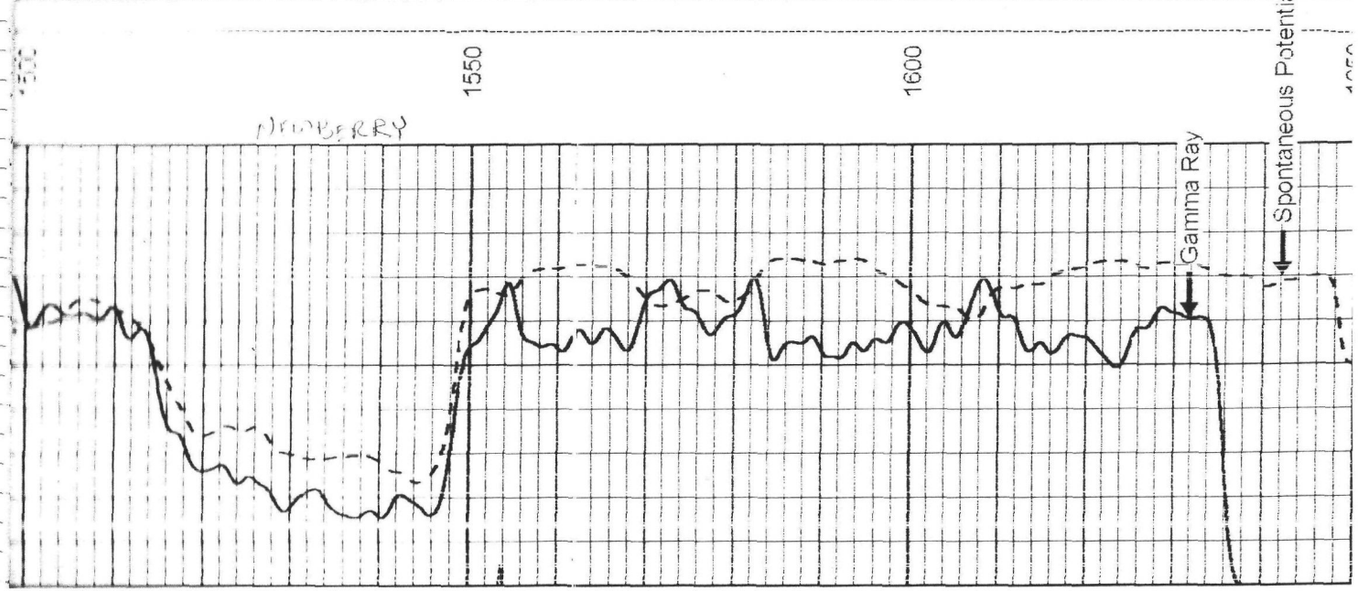
Other Service
GR/ CN/CDL
MEL

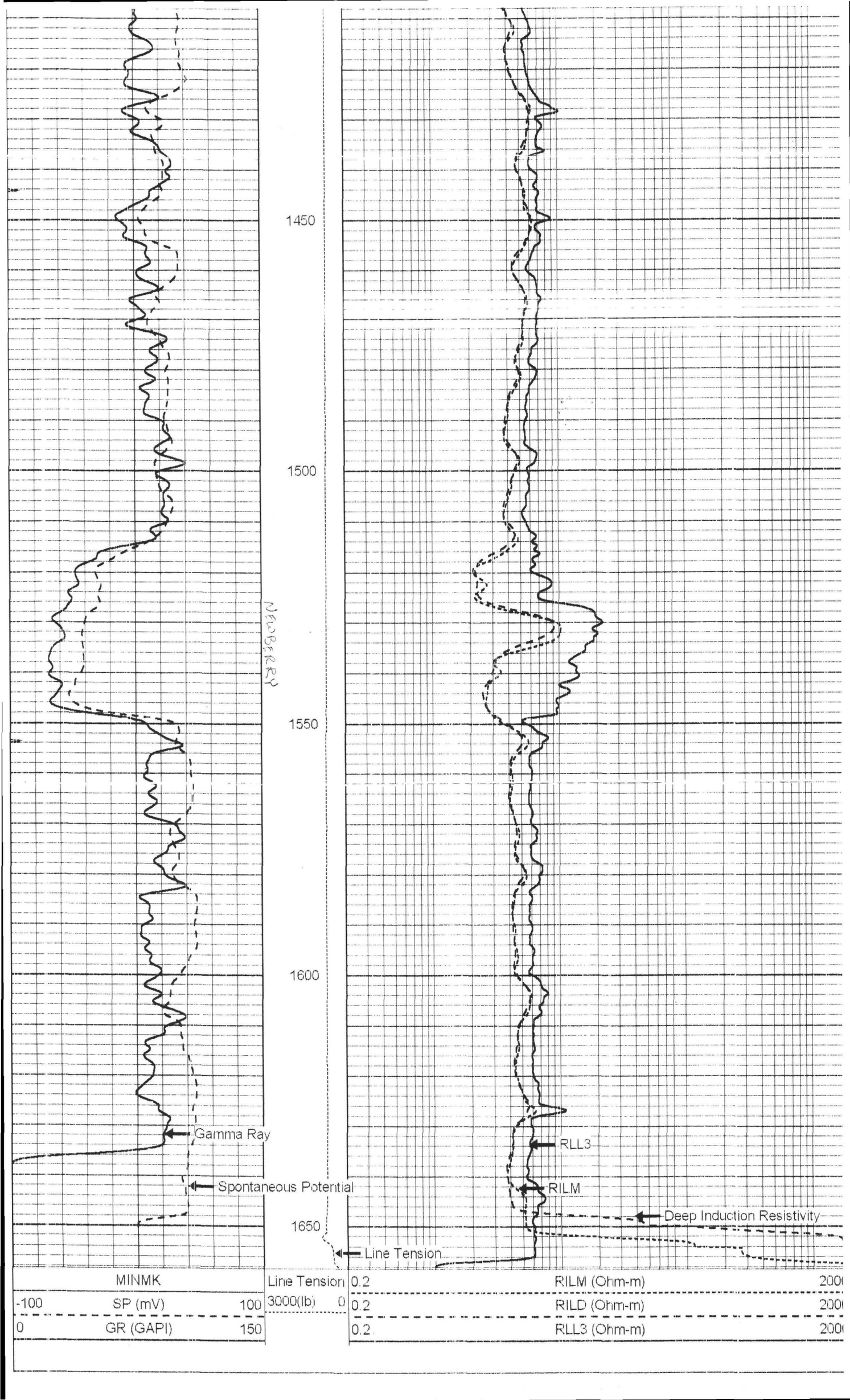
Permanent Datum G.L. Elevation 1008
Log Measured From K.B., 5.0 FT ABOVE G.L.
Drilling Measured From K.B.

Elevation
K.B. 1022
D.F.
G.L. 1017

Date	5/12/06		
Run Number	ONE		
Depth Driller	1650		
Depth Logger	1652		
Bottom Logged Interval	1651		
Top Log Interval	30		
Casing Driller	NONE		
Casing Logger	N/A		
Bit Size	7 7/8		
Type Fluid in Hole	GEL/ CHEM		
Density / Viscosity			
pH / Fluid Loss			
Source of Sample	PIT		
Rm @ Meas. Temp	1.8 @ 65		
Rmf @ Meas. Temp	1.4 @ 65		
Rmc @ Meas. Temp	2.6 @ 65		
Source of Rmf / Rmc	C/C		
Rm @ BHT			
Time Circulation Stopped			
Time Logger on Bottom			
Maximum Recorded Temperature			
Equipment Number	234		
Location	ARSMORE		
Recorded By	NEILL		
Witnessed By	MR. NICHOLS		






1450
1500
1550
1600
1650
NEWBERRY
Gamma Ray
Spontaneous Potential
Line Tension
RLL3
RILM
Deep Induction Resistivity
MINMK
-100
SP (mV)
100
0
GR (GAPI)
150
Line Tension
3000(lb)
0
0.2
RILM (Ohm-m)
200
0.2
RILD (Ohm-m)
200
0.2
RLL3 (Ohm-m)
200

Hayes Evaluation Logging & Perforating

GAMMA RAY COMPENSATED NEUTRON COMPENSATED DENSITY MICROLOG

Company PRIME OPERATING, INC.

Well S. H. COWAN NO. NO. 48

Field ROBBERSON

County GARVIN State OKLAHOMA

Location: API # : 049- 24539

NE4 NW4 SE4 NW4
1135 FS/4 & 1965 FW/4

SEC 15 TWP 01N RGE 03W

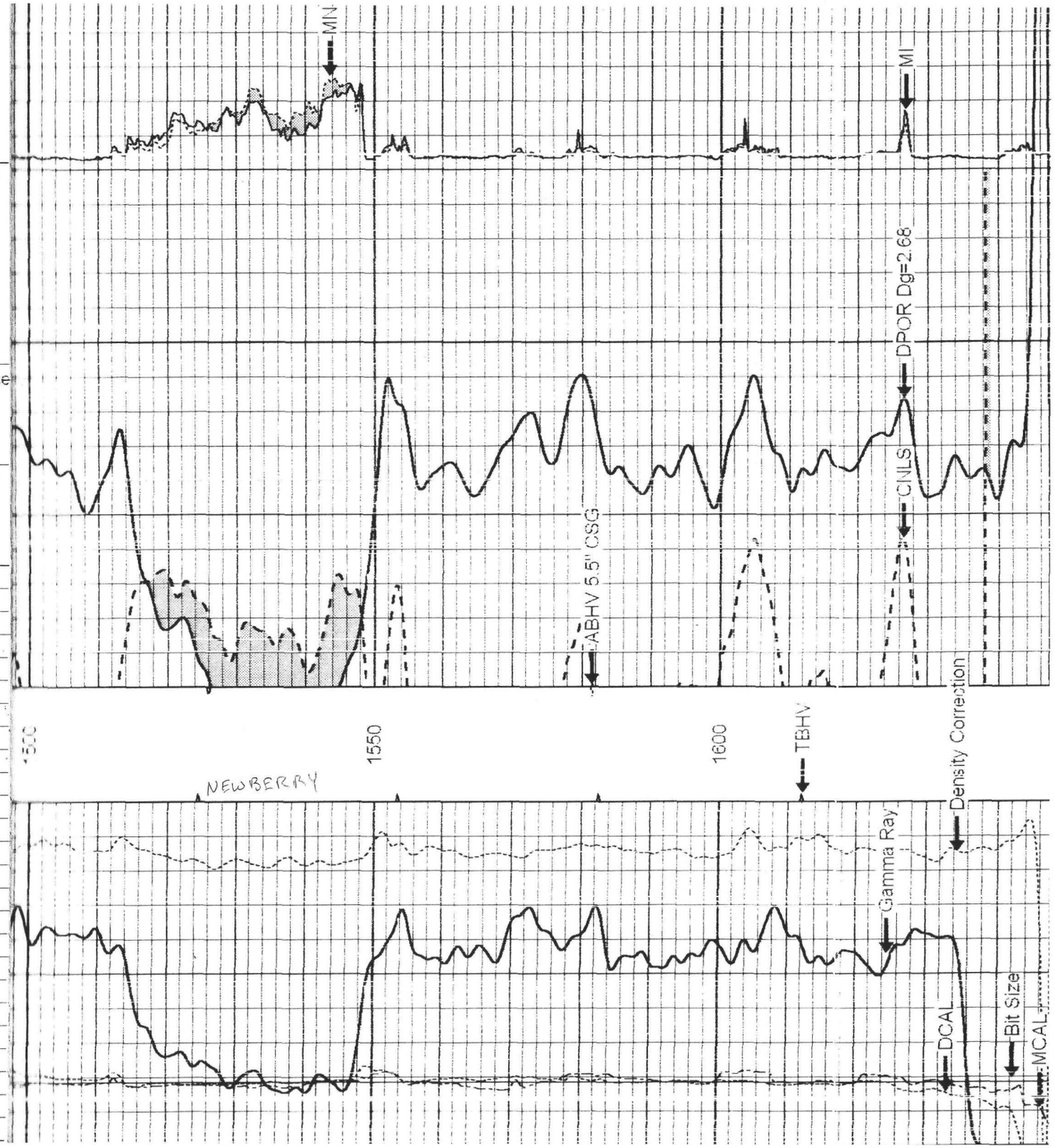
Other Service: GR/ DIL

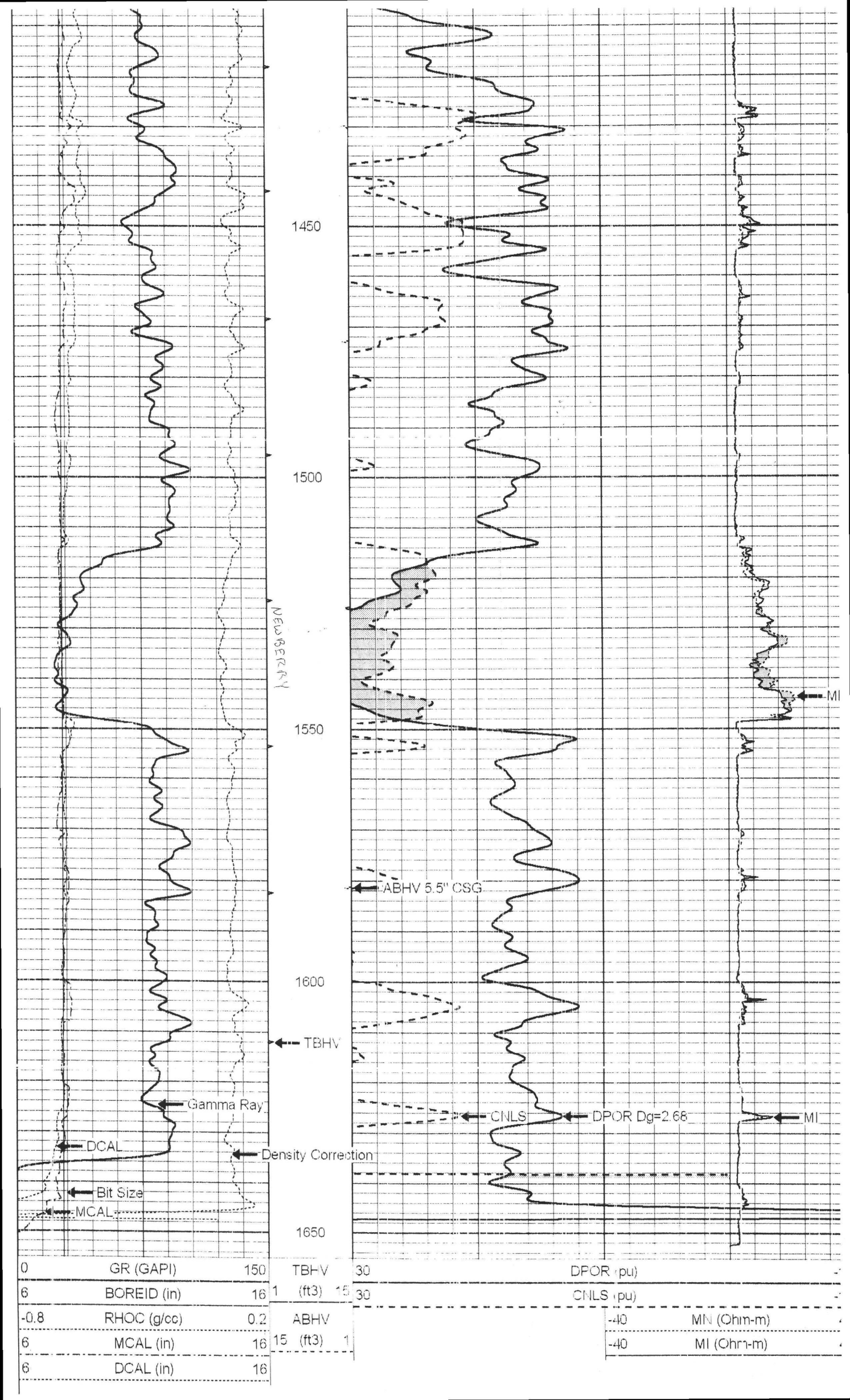
Elevation: K.B. 1022 D.F. G.L. 1017

Permanent Datum G.L. Elevation 1017
Log Measured From K.B., 5.0 FT ABOVE G.L.
Drilling Measured From K.B.

Company PRIME OPERATING, INC.
Well S. H. COWAN NO. NO. 48
Field ROBBERSON
County GARVIN
State OKLAHOMA

Date	5/12/06
Run Number	ONE
Depth Driller	1650
Depth Logger	1652
Bottom Logged Interval	1651
Top Log Interval	30
Casing Driller	NONE
Casing Logger	N/A
Bit Size	7 7/8
Type Fluid in Hole	GEL/ CHEM
Density / Viscosity	
pH / Fluid Loss	
Source of Sample	PIT
Rm @ Meas. Temp	1.8 @ 65
Rmf @ Meas. Temp	1.4 @ 65
Rmc @ Meas. Temp	2.6 @ 65
Source of Rmf / Rmc	C/C
Rm @ BHT	
Time Circulation Stopped	
Time Logger on Bottom	
Maximum Recorded Temperature	
Equipment Number	234
Location	ARSMORE
Recorded By	NEILL
Witnessed By	MR. NICHOLS




1450
1500
1550
1600
1650
NEWBERRY
ABHV 5.5" CSG
TBHV
Gamma Ray
DCAL
Density Correction
Bit Size
MCAL
CNLS
DPOR Dg=2.68
MI
MI
0 GR (GAPI) 150
6 BOREID (in) 16
-0.8 RHOC (g/cc) 0.2
6 MCAL (in) 16
6 DCAL (in) 16
TBHV
1 (ft3) 15
ABHV
15 (ft3) 1
30 DPOR (pu)
30 CNLS (pu)
-40 MN (Ohm-m)
-40 MI (Ohm-m)

SCHLUMBERGER INDUCTION-ELECTRICAL LOG

COMPANY Mobil Oil Corp. KS

WELL Cowan #F 33 1

FIELD Rebecca Sou PRODUCING

COUNTY Garvin STATE Okla.

LOCATION SE-SE-SW-NW

Sec. 15 Twp. 1N Rge. 3W

Other Services: GA-FDC

COUNTY
FIELD or LOCATION
WELL
COMPANY

Perm. Datum: GL Elev. 1004
Log Measured From KB 6 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1010
D.F. —
G.L. 1004

Date	6-25-69		
Run No.	ONE		
Depth—Driller	1890		
Depth—Logger	1892		
Btm. Log Interval	1891		
Top Log Interval	100		
Casing—Driller	— @ —	@	@
Casing—Logger	—	@	@
Bit Size	7 7/8	6 1/2	6 1/2
Type Fluid in Hole	Gel	Water	Water
Dens. / Visc.	9.7 / 40		
pH / Fluid Loss	— / — ml	ml	ml
Source of Sample	F.L.		
R_m @ Meas. Temp.	4.0 @ 80 °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	3.5 @ 80 °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.4 @ 80 °F	@ °F	@ °F
Source: R_{mf} / R_{mc}	C / C	/	/
R_m @ BHT	@ 86 °F	@ °F	@ °F
Time Since Circ.	1 1/2 Hrs		
Max. Rec. Temp.	86 °F	°F	°F
Equip. / Location	4562 / W.F		
Recorded By			
Witnessed By			

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

REMARKS

Changes in Mud Type or Additional Samples			
Date / Sample No.			
Depth—Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph / Fluid Loss	ml		
Source of Sample			
R_m @ Meas. Temp.	@ °F	@ °F	
R_{mf} @ Meas. Temp.	@ °F	@ °F	
R_{mc} @ Meas. Temp.	@ °F	@ °F	
Source: R_{mf} / R_{mc}			
R_m @ BHT	3.85 @ 86 °F	@ °F	
R_{mf} @ BHT	3.40 @ 85 °F	@ °F	
R_{mc} @ BHT	— @ — °F	@ °F	

Scale Changes			
Type Log	Depth	Scale Up Hole	Scale Down H

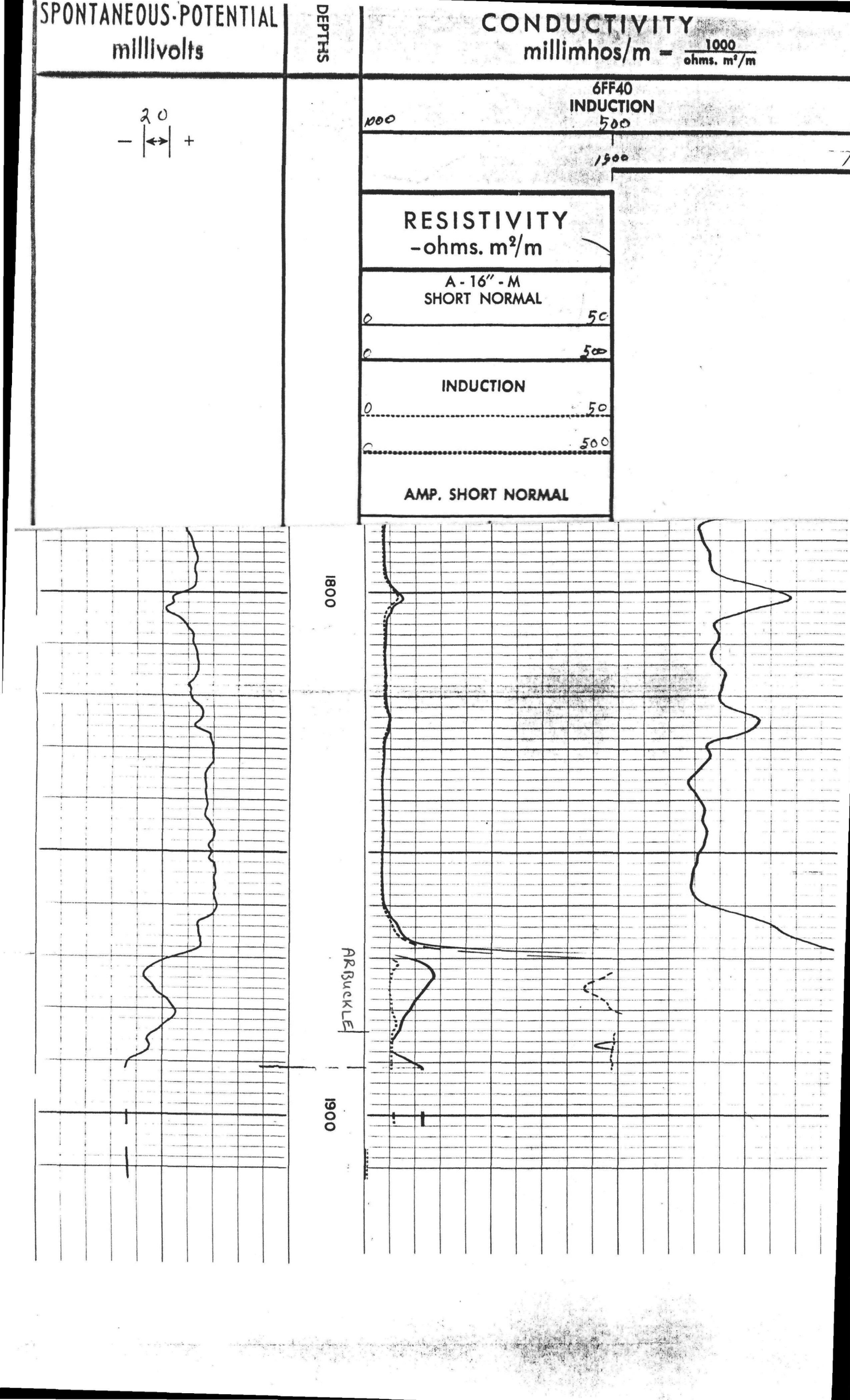
Equipment Data			
Run No.	Tool Type	Tool Position	Other

Run No.: ONE
C.D.: 45ed
S.O.: 1 1/2
Equip. PANEL No.: IFP-F 319
Used: CART. No.: IFC-F 3-6
SONDE No.: IES-M 163
[illegible]-F No.: 181
S.B.R.: 2

Check one, filling in blanks where applicable:

- ☒ Surface determined sonde errors used for 6FF40.
- ☐ 6FF40 sonde error corrected for ____ inch borehole signal at Rm = ____.
- ☐ 6FF40 zero set in hole at depth of ____ feet.

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	CONDUCTIVITY millimhos/m = 1000 / ohms. m²/m
		6FF40 INDUCTION


SPONTANEOUS-POTENTIAL
millivolts
20
DEPTHS
CONDUCTIVITY
millimhos/m = 1000 / ohms. m²/m
6FF40
INDUCTION
1000
500
1500
RESISTIVITY
-ohms. m²/m
A - 16" - M
SHORT NORMAL
0
50
0
500
INDUCTION
0
50
0
500
AMP. SHORT NORMAL
1800
ARBUCKLE
1900

Report

15-1R

PL00036222

SCHLUMBERGER

COMPENSATED FORMATION DENSITY LOG

Gamma Gamma

COUNTY
FIELD or LOCATION
WELL
COMPANY

COMPANY
WELL
FIELD
COUNTY
STATE

Location: Sec. Twp. Rge.

Permanent Datum:
Log Measured From
Drilling Measured From
Ft. Above Perm. Datum

Elev.: K.B.
D.F.
G.L.

Other Services:

RUN No.	Bit	BORE HOLE RECORD From	To	Size	Wgt	CASING RECORD From	To

Date
Run No.
Type Log
Depth—Driller
Depth—Logger
Bottom logged interval
Top logged interval
Type fluid in hole
Salinity, PPM Cl
Density
Level
Max rec. temp., deg. F.
Operating rig time
Recorded by
Witnessed by

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

EQUIPMENT DATA

Run No.	PG P	PDH A	PGH A	PGS	Source No.	SFT-106	SGH	Logging Unit	Location
1									
2									
3									

CALIBRATION DATA

Run No.	Gamma Ray API Scale	Gamma Ray Background CPS	Gamma Ray Total CPS	FDC – Before Log – ACPS P	FDC – Before Log – ACPS P_1	FDC – After Log – ACPS P	FDC – After Log – ACPS P_1
1							
2							
3							

LOGGING DATA

Run No.	General Depths From	General Depths To	General Speed Ft/Min	Gamma Ray Tc	Gamma Ray API Scale	Liquid Density	FDC Selectors Grain Density	FDC Selectors Hole Fluid	FDC Selectors Porosity Scale

MUD DATA

Run No.	Kind	Solids by Vol	Oil by Vol	Water by Vol	Viscosity Sec Qt	Solids Av Sp Gr
1						
2						
3						

Remarks:

PRODUCING

[illegible] based on the [illegible] electrical or other [illegible] measurements and we cannot and do not guarantee the accuracy or correctness of any interpretations [illegible] and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone [illegible] agents or employees. These interpretations are also subject to our General Terms and Conditions as set [illegible] Price Schedule.

CALIPER
HOLE DIAM. IN INCHES

DEPTHS

POROSITY
PERCENT
30 20 10 0 −10

25 0 25
CORRECTION
GRAMS CC

GAMMA RAY
API UNITS

BULK DENSITY
GRAMS CC.