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SIMULTANEOUS COMPENSATED NEUTRON- FORMATION DENSITY

COMPANY ZIA ENERGY INC

WELL _____ FEDERAL # 1

FIELD _____ UNDESIGNATED _____

COUNTY _____ LEA _____ STATE NEW MEXICO

Other Services:

DLL/MSFL
BHC
CYBERLOOK

Permanent Datum: G.L.; Elev.: 3382
Log Measured From K.B. 12 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 3394
D.F. 3382
G.I. 3382

Date	5-23/24-79					
Run No.	ONE					
Depth—Driller	4300					
Depth—Logger	4310					
Btm. Log Interval	4309					
Top Log Interval	SURF					
Casing—Driller	8 5/8 @ 370		@	@	@	
Casing—Logger	370					
Bit Size	7 7/8					
Type Fluid in Hole	BRINE					
Dens.	Visc.	10.4 38				
pH	Fluid Loss	10 ml	ml	ml	ml	r
Source of Sample	PIT					
Rm @ Meas. Temp.	.054 @ 74 °F	@ °F	@ °F	@ °F	@ °F	
Rmf @ Meas. Temp.	.041 @ 74 °F	@ °F	@ °F	@ °F	@ °F	
Rmc @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F	@ °F	
Source: Rmf Rmc	M					
Rm @ BHT	.04 @ 98 °F	@ °F	@ °F	@ °F	@ °F	
Circulation Stopped	2100	5-23				
Logger on Bottom	0000	5-24				

ETEC EXAMINER NUTTER

CR. CERTIFICATION DIVISION

21A EXHIBIT NO. 4

CALE NO. 6861

Dresser Atlas

Compensated Neutron

WELL State of Ind

WELL State of Ind

WELL State of Ind

COUNT Log

DATE 12-11-61

WELL State of Ind

WELL State of Ind

Other Service

WELL State of Ind

Elevations

Permanent Datum GL Elev 3405

KB

Log Measured from GL, Ft. Above Permanent Datum

DF

Drilling Measured from GL

GL 3405

Date 11-7-79

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FIELD PRINT

Borehole Log				Casing Record			
No.	Bit	From	To	Size	Wt	From	To
1	4 3/4	3927	3430	5 1/2		3430	surf

LUTHER E. WATKINS
 COLLECTION SECTION
 21a
 CASE NO. 6861

Dresser Atlas

*Sidewall Neutron
Gamma Ray*

FILE NO. _____
 COMPANY TEXAS PACIFIC OIL COMPANY
 WELL ELLIOTT B-17 NO. 4
 FIELD DRINKARD
 COUNTY LEA STATE NEW MEXICO
 LOCATION: 1980'FNL & 1980'FEL
 SEC 17 TWP 22-S RGE 37-E
 Other Services
 L/L
 ML/L-C

Permanent Datum GROUND LEVEL Elev. 3391
 Log Measured from K. B. 11 Ft. Above Permanent Datum
 Drilling Measured from K. B.
 Elevations:
 KB 3402
 DF 3401
 GL 3391

Date	2-28-74				
Run No.	ONE				
Depth—Driller	7443				
Depth—Logger	7431				
Bottom Logged Interval	7429				
Top Logged Interval	SURFACE				
Casing—Driller	8 5/8 @ 1100	@	@	@	@
Casing—Logger	1094				
Bit Size	7 7/8"				
Type Fluid in Hole	BRINE				
Density and Viscosity	10.2 38				
pH and Fluid Loss	8 10.4 cc	cc	cc	cc	cc
Source of Sample	CIRCULATED				
Rm @ Meas. Temp.	.041 @ 78 °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.038 @ 75 °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	- @ °F	@ °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	MEAS.				
Rm @ BHT	.028 @ 115 °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	7 HOURS				
Max. Rec. Temp. Deg. F.	115 °F	°F	°F	°F	°F
Equip. No. and Location	6040 HOBBS				
Recorded By	MOEHRKE				

Welex

ACOUSTIC VELOCITY LOG

COMPANY <u>Gulf Oil Corporation</u> WELL <u>R. E. Cole (NCT-A)</u> FIELD <u>Undesignated</u> County <u>Lea</u> State <u>N.M.</u>	COMPANY <u>GULF OIL CORPORATION</u>			
	WELL <u>R. E. COLE (NCT-A) # 9</u>			
	FIELD <u>UNDESIGNATED</u>			
	COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u>			
Location <u>1075' FSL 2395' FWL</u>		Other Services: <u>Guard</u> <u>Forxo</u> <u>FF MSG</u>		
Sec. <u>16</u> Twp. <u>22-S</u> Rge. <u>37-E</u>				
Permanent Datum <u>Ground Level</u> Elev. <u>3384</u>		Elev.: K.B. <u>3396</u>		
Log Measured From <u>K. B. 12</u> Ft. Above Perm. Datum		D.F. <u>3395</u>		
Drilling Measured From <u>Kelly Bushing</u>		G.I. <u>3384</u>		
Date	<u>9-3-67</u>			
Run No.	<u>- One -</u>			
Depth-Driller	<u>7335</u>			
Depth-Welex	<u>7336</u>			
Btm. Log Inter.	<u>7330</u>			
Top Log Inter.	<u>10</u>			
Casing-Driller	<u>9-5/8" @ 1183</u>	<u>@</u>	<u>@</u>	
Casing-Welex				
Bit Size	<u>8-3/4"</u>			
Type Fluid in Hole	<u>Mud</u>			
Dens. Visc.	<u>10.1136</u>			
pH Fluid Loss	<u>110 ml</u>	<u>ml</u>	<u>ml</u>	
Source of Sample	<u>Circulated</u>			
R ₁ @ Meas. Temp.	<u>.05 @ 93°F</u>	<u>@ °F</u>	<u>@ °F</u>	
R ₂ @ Meas. Temp.	<u>.045 @ 84°F</u>	<u>@ °F</u>	<u>@ °F</u>	
R ₃ @ Meas. Temp.	<u>@ °F</u>	<u>@ °F</u>	<u>@ °F</u>	
Source R ₁ R ₂	<u>Measured</u>	<u> </u>	<u> </u>	
R ₁ @ BHT	<u>.04 @ 120°F</u>	<u>@ °F</u>	<u>@ °F</u>	
Time Since Circ				
Max. Rec. Temp.	<u>120°F @ B.H.</u>	<u>°F @</u>	<u>°F @</u>	
Equip. Location	<u>3003 Hobbs</u>	<u> </u>	<u> </u>	
Recorded By	<u>G. Ayres</u>			
Witnessed By	<u>Mr. Mussett</u>			

RECEIVED BY LUTTER

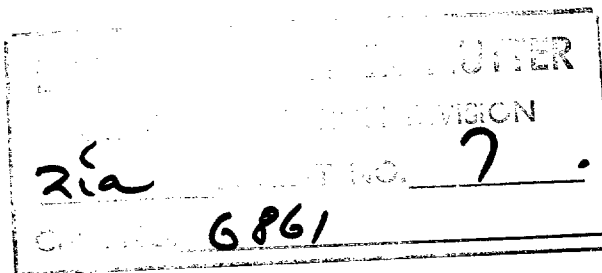
OIL CORPORATION DIVISION

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Ric

6861

3300



COMPENSATED ACOUSTIC VELOCITY LOG

COMPANY <u>GULF OIL COMPANY - U. S.</u>	
WELL <u>R. E. COLE (NCT - A) # 14</u>	
FIELD <u>SOUTH MCCORMACK</u>	
COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u>	
Location <u>2310' FNL & 1650' FWL</u>	Other Services:
Sec. <u>16</u> Twp <u>22-S</u> Rge <u>37-E</u>	
Permanent Datum <u>Ground Level</u> Elev. <u>3396'</u>	Elev.: K.B. <u>3407'</u>
Log Measured From <u>K. B. - 11</u> Ft. Above Perm. Datum	D.F. <u>3406'</u>
Drilling Measured From <u>Kelly Bushing</u>	G.L. <u>3396'</u>
Date <u>8/26/71</u>	
Run No. <u>- One -</u>	
Depth-Driller <u>7402</u>	
Depth-Welex <u>7402</u>	
Btm. Log Inter. <u>7396</u>	
Top Log Inter. <u>Surface</u>	
Casing-Driller <u>8-5/8" @ 1156</u>	
Casing-Welex	
Bit Size <u>7-7/8"</u>	
Type Fluid in Hole <u>Mud</u>	
Dens. Visc. <u>10.1 40</u>	
pH Fluid Loss <u>116.2ml</u>	
Source of Sample <u>Circulated</u>	
R _{int} @ Meas. Temp. <u>@ °F</u>	
R _{int} @ Meas. Temp. <u>@ °F</u>	
R _{int} @ Meas. Temp. <u>@ °F</u>	
Source R _{int} R _{int} <u> </u>	
R _{int} @ BHT <u>@ °F</u>	
Time Since Circ.	
Max. Rec. Temp. <u>°F @</u>	
Equip. Location <u>8443 Hobbs</u>	
Recorded By <u>J.S. Cauble</u>	
Witnessed By <u>Mr. Poltz</u>	

21a 8
CASE NO. 6861

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-
FORMATION DENSITY

COMPANY GULF ENERGY & MINERALS COMPANY-US

WELL R.E. COLE (NCT-A) #16

FIELD DRINKARD

COUNTY LEA STATE NEW MEXICO

LOCATION 1980' FNL & 1980' FEL

Other Services:
NONE

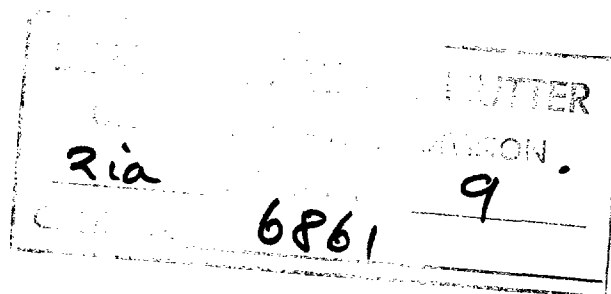
API SERIAL NO SEC TWP RANGE
16 22-S 37-E

Permanent Datum: G.L.; Elev.: 3409
Log Measured From K.B. 10 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 3419
D.F.
G.L. 3409

Date	8-8-76				
Run No.	ONE				
Depth-Driller	6650				
Depth-Logger	6650				
Btm. Log Interval	6649				
Top Log Interval	0				
Casing-Driller	8 5/8 @ 1180	a	a	a	
Casing-Logger	1182				
Bit Size	7 7/8				
Type Fluid in Hole	BRINE WATER				
Dens.	10.1	30			
Visc.					
pH	9	NC ml	ml	ml	
Fluid Loss					
Source of Sample	CIRCULATED				
Rm @ Meas. Temp.	.045 @ 80 F	a	F	a	F
Rmf @ Meas. Temp.	.045 @ 80 F	a	F	a	F
Rmc @ Meas. Temp.	.068 @ 80 F	a	F	a	F
Source: Rmf	M	C			
Rmc					
Rm @ BHT	.031 @ 118 F	a	F	a	F
Circulation Stopped	0700				
Logger on Bottom	1115				

300



Schlumberger

SIMULTANEOUS

COMPENSATED NEUTRON- FORMATION DENSITY

COUNTY LEA FIELD or LOCATION SOUTH EUNICE WELL WALDEN #11 COMPANY ANADARKO PROD.

COMPANY ANADARKO PRODUCTION COMPANY

WELL WALDEN #11

FIELD SOUTH EUNICE

COUNTY LEA STATE NEW MEXICO

Location: 660' FWL & 990' FSL,

Other Services:

BHC, MLL
DLL

Sec. 15 Twp. 22-S Rge. 37-E

Permanent Datum: G.L. ; Elev.: 3397
Log Measured From K.B. , 11 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 3408
D.F. 3407
G.L. 3397

Date	12-12-73				
Run No.	ONE				
Depth-Driller	4600				
Depth-Logger	4592				
Btm. Log Interval	4583				
Top Log Interval	0				
Casing-Driller	8 5/8 @ 357	@	@	@	
Casing-Logger	352				
Bit Size	7 7/8				
Type Fluid in Hole	SALT MUD				
Fluid Level	FULL				
Dens.	10	41			
pH	Fluid Los	7.8ml	ml	ml	ml
Source of Sample	CIRC				
R _{nm} @ Meas. Temp.	.052 @ 75 F	@ F	@ F	@ F	@ F
R _{mf} @ Meas. Temp.	.049 @ 74 F	@ F	@ F	@ F	@ F
R _{mc} @ Meas. Temp.	.078 @ 75 F	@ F	@ F	@ F	@ F
Source: R _{mf} R _{mc}	M C				
R _m @ BHT	@ 93 F	@ F	@ F	@ F	@ F
Time Since Circ.	7 HOURS				
Max Rec Temp	93 F	F	F	F	F
Equip. Location	7645 HOBBS				

SCHLUMBERGER**SONIC LOG**SCHLUMBERGER WELL SURVEYING CORPORATION
Houston, Texas

COUNTY <u>LEA</u> FIELD or LOCATION <u>DRINKARD</u> WELL <u>GRIZZELL # 9</u> COMPANY <u>SHELL OIL COMPANY</u>	COMPANY <u>SHELL OIL COMPANY</u>	Other Surveys <u>LL, MLL, MOP</u>
	WELL <u>GRIZZELL # 9</u>	Location of Well <u>810' FROM S/L</u> <u>1980' FROM E/L</u>
	FIELD <u>DRINKARD</u>	
	LOCATION <u>SEC. 8-22S-37E</u>	
	COUNTY <u>LEA</u>	Elevation: K.B.: D.F.: <u>3412</u> or G.L.: <u>3403</u>
STATE <u>NEW MEXICO</u>		

Log Depths Measured From DF 9 Ft. above GL

RUN No.	ONE		
Date	7-10-63		
First Reading	6532		
Last Reading	0		
Feet Measured	6532		
Csg. Schlum.	-		
Csg. Driller	275		
Depth Reached	6536		
Bottom Driller	6542		
Mud Nat.	SALT GEL, STARCH, OIL		
Dens.	9.8	43	
Mud Resist.	.056 @ 86 °F	@ °F	@ °F
" Res. BHT	.045 @ 109 °F	@ °F	@ °F
" pH	5.5 @ °F	@ °F	@ °F
" Wtr. Loss	24.4 CC 30 min	CC 30 min	CC 30 min
" Rmf	.038 @ 85 °F	@ °F	@ °F
Bit Size	7 7/8"		
Spacing:			
T ₃ R ₁ R ₂	6532 To CSG	To	To
T ₁ R ₁ R ₂	To	To	To
Opr. Rig Time	3 1/2 HOURS		
Truck No.	3701-HOBBS		
Recorded By	BROWN		
Witness	ALEXANDER		

3300

FOLD HERE

WELEX



RADIOACTIVITY LOG

COMPANY TEXACO INCORPORATED

WELL C. P. FALBY "B" # 4

FIELD PENROSE SKELLY

County LEA

State NEW MEXICO

File

COMPANY TEXACO INCORPORATED

WELL C. P. FALBY "B" # 4

FIELD PENROSE SKELLY

COUNTY LEA STATE NEW MEXICO

Location

1980' FSL 660' FWL
SEC. 8 TWP. 22-S
RGE. 37-E

Other Logs

Sec. Twp Rge

Elevation

Permanent Datum GROUND LEVEL Elev. 3412

Log Measured From KELLY BUSHING

Drilling Measured From KELLY BUSHING

KB. 3423

DF. 3422

GL. 3412

Type Log	GAMMA	N. GAMMA
Run No.	- 1 -	- 1 -
Date	10-25-60	10-25-60
Total Depth Driller	6550	6550
Present Depth Driller	6550	6550
Total Depth Welex	6557	6557
Survey Begins	6557	6557
Survey Ends	SURF.	SURF.
Mud Data	- WATER BASE -	

Type Fluid in Hole	MUD	MUD
Salinity PPM Cl	175,000	175,000
Weight lb./gal.	10.2	10.2
Fluid Level	235	235
Max. Hole Temp.	113	113

Recorded By J. G. GREER
Witnessed By MR. LIPSCOMBE

BORE HOLE RECORD

CASING RECORD

Run	Bit	From	To	Size	Wgt.	From	To
	15"	0	-	10-3/4"		0	-
	9-7/8"	-	3900	7-7/8"		0	3900
	6-3/4"	3900	6550				

RECORDS & MATERIALS NUTTER
DIVISION
CART NO. 6861
EXHIBIT NO. 11