Case No
6861

Large Exhibits

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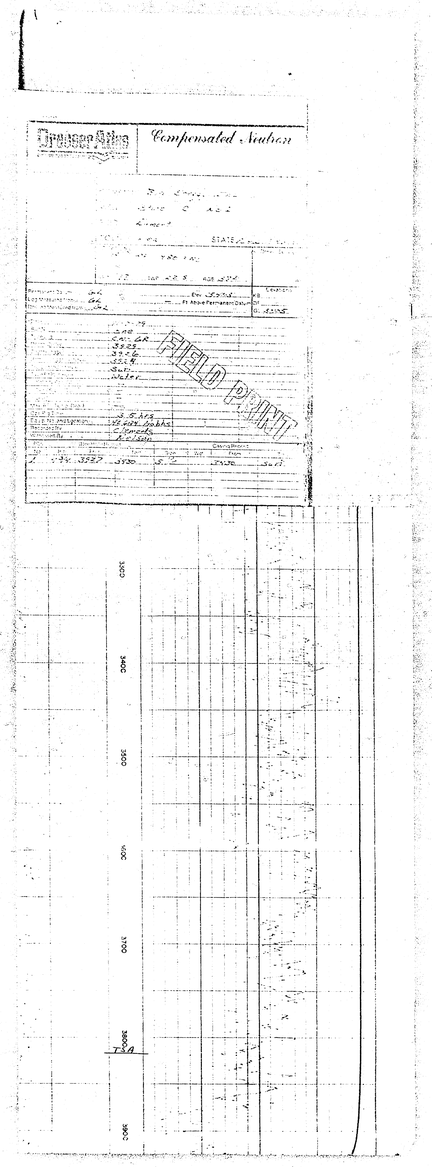

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COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY ZIA ENERGY INC

WELL FEDERAL #1

FIELD UNDESIGNATED

COUNTY LEA STATE NEW MEXICO

LEA / UNDESIGNATED / FEDERAL #1 / ZIA ENERGY INC

SEC 17 TWP 22-S RANGE 37-E

2310' FSL & 2310' FWL

Other Services: DLL/MSFL BHC CYBERLOOK

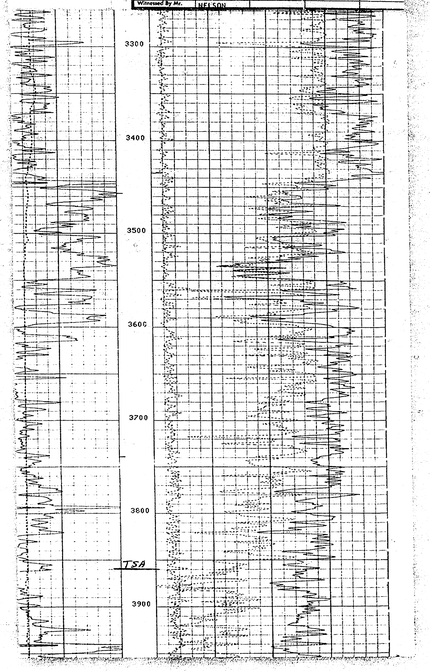
Permanent Datum: G.L. Elev. 3382

Log Measured From: K.B. 12 Ft. Above Perm. Datum

Drilling Measured From: K.B.

Elev.: K.B. 3394 D.F. G.L. 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.	10.5 38			
pH / Fluid Loss	10 ml	ml	ml	ml
Source of Sample	PIT			
Rm @ Meas. Temp.	.051 @ 74 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.043 @ 74 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	M /	/	/	/
Rm @ BHT	.04 @98 °F	@ °F	@ °F	@ °F
Time Circulation Stopped	2100 5-23			
Time Logger on Bottom	0000 5-24			
Max. Rec. Temp.	98 °F	°F	°F	°F
Equip. / Location	8069 / HOBBS			
Recorded By	DANIELS			
Witnessed By	Mr. SON			



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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

Other Services: L/L ML/L-C

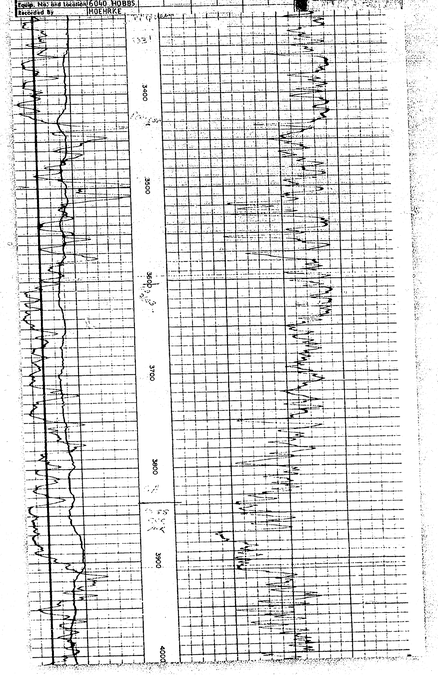
SEC 17 TWP 22-S RGE 37-E

Permanent Datum GROUND LEVEL Elev. 3391 — Elevations: KB 3401, DF, GL 3391

Log Measured from Kl. B. 11 Ft. Above Permanent Datum

Drilling Measured from Kl. B.

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	1091									
Bit Size	7 7/8"									
Type Fluid in Hole	BRINE									
Density and Viscosity	10.2 38									
pH and Fluid Loss	8 10.2 cc		cc		cc					
Source of Sample	CIRCULATED									
Rm @ Meas. Temp.	1.061 @ 78 °F	@	°F	@	°F	@	°F			
Rmf @ Meas. Temp.	1.038 @ 75 °F	@	°F	@	°F	@	°F			
Rmc @ Meas. Temp.	@	@	°F	@	°F	@	°F			
Source of Rmf and Rmc	MEAS'D									
Rm @ BHT	.028 @ 115 °F	@	°F	@	°F	@	°F			
Time Since Circ.	7 HOURS									
Max. Rec. Temp. Deg. F.	115 °F		°F		°F					
Equip. No. and Location	6040 HOBBS									
Recorded By	MOEHRLE									
Witnessed By										



U.S.W.G.Y. SUPERVISION

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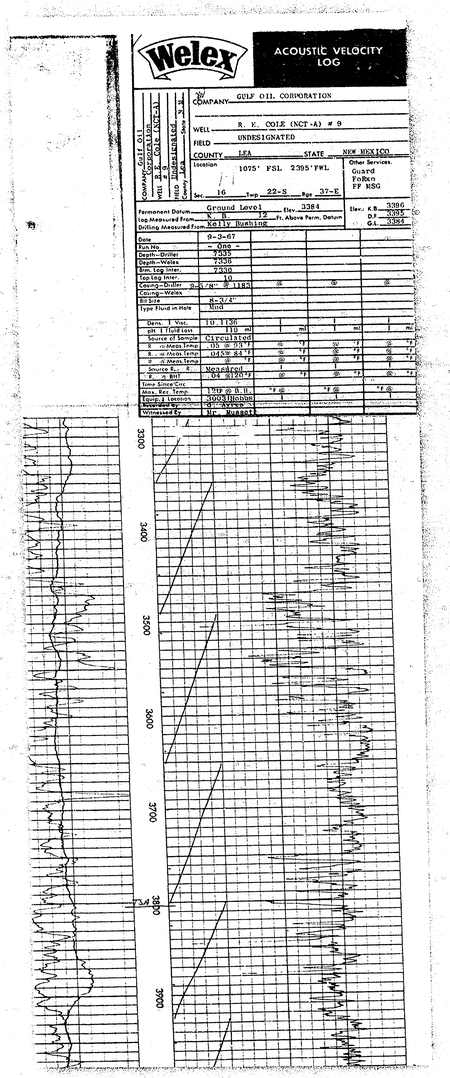

Welex
ACOUSTIC VELOCITY LOG
COMPANY GULF OIL CORPORATION
WELL R. E. COLE (NCT-A) # 9
FIELD UNDESIGNATED
COUNTY LEA STATE NEW MEXICO
Location 1075' FSL 2395' FWL
Sec. 16 Twp. 22-S Rge. 37-E
Other Services: Guard ToRen FF MSG
Permanent Datum: Ground Level Elev. 3384
Log Measured From: K. B. 12 Ft. Above Perm. Datum
Drilling Measured From: Kelly Bushing
Elev.: K.B. 3396 D.F. 3395 G.L. 3384
Date 9-3-67
Run No. - One -
Depth—Driller 7535
Depth—Wellex 7536
Btm. Log Inter. 7530
Top Log Inter. 10
Casing—Driller 8-5/8" @ 1185
Casing—Wellex
Bit Size 8-3/4"
Type Fluid in Hole Mud
Dens. / Visc. 10.1/36
pH / Fluid Loss 11.0 ml
Source of Sample Circulated
R @ Meas. Temp .103 @ 91°F
R @ Meas. Temp .045@ 84°F
R @ Meas. Temp @ °F
Source R... R Measured
R @ BHT .04 @120°F
Time Since Circ.
Max. Rec. Temp. 170°F
Equip. Location 1003/Hobbs
Recorded By Art Werner
Witnessed By Mr. Mussett
3300
3400
3500
3600
3700
3800
3900
TC

Welex

COMPENSATED ACOUSTIC VELOCITY LOG

COMPANY GULF OIL COMPANY - U. S.

WELL H. T. COLE (NCT - A) # 11

FIELD SOUTH McCONNACK

COUNTY LEA STATE NEW MEXICO

Location: 2210' FNL & 1650' FNL

Sec. 16 Twp. 22-S Rge. 37-E

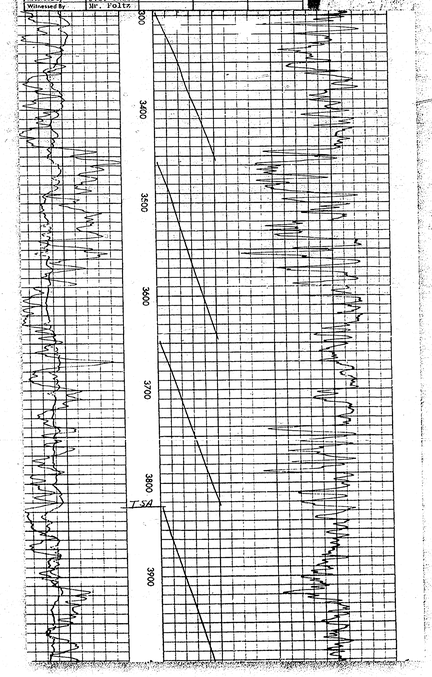
Other Services:

Company GULF OIL COMPANY - U. S.
Well H. T. COLE (NCT - A) # 11
Field SOUTH McCONNACK
County LEA State NEW MEXICO

Permanent Datum: Ground Level Elev. 3396'
Log Measured From: K. B. - 11 ft. Above Perm. Datum
Drilling Measured From: Kelly Bushing

Elev.: K.B. 3407'
D.F. 3406'
G.L. 3396'

Date	9/26/71							
Run No.	- One -							
Depth-Driller	7402							
Depth-Wrlee	7402							
Btm. Log Inter.	7396							
Top Log Inter.	Surface							
Casing-Driller	8-5/8" @ 1156		@		@		@	
Casing-Wrlee								
Bit Size	7-7/8"							
Type Fluid in Hole	Oil Base Mud							
Dens. | Visc.	10.1 | 40"							
pH | Fluid loss	10.2	ml		ml		ml		ml
Source of Sample	Circulated							
R_m @ Meas. Temp.	@ °F		@	°F	@	°F	@	°F
R_mf @ Meas. Temp.	@ °F		@	°F	@	°F	@	°F
R_mc @ Meas. Temp.	@ °F		@	°F	@	°F	@	°F
Source R_m | R_mf	- | -		-		-		-	
R_m @ BHT	@ °F		@	°F	@	°F	@	°F
Time Since Circ.								
Max. Rec. Temp.	°F @		°F @		°F @		°F @	
Equip. | Location	8443 | Hobbs		-		-		-	
Recorded By	J. S. Cauble							
Witnessed By	Mr. Foltz							



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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 16 | TWP 22-S | RGE 37-E

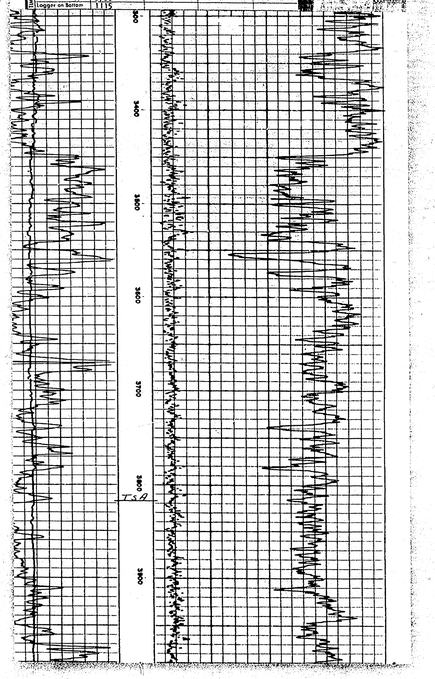
Permanent Datum: G.L. Elev.: 3409

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	@	@	@					
Casing-Logger	1182								
Bit Size	7 7/8								
Type Fluid in Hole	BRINE WATER								
Dens. / Visc.	10.1 / 30								
pH / Fluid Loss	9 / NC ml		ml						
Source of Sample	CIRCULATED								
Rm @ Meas. Temp.	.045@80 °F	@ °F	@ °F	@ °F					
Rmf @ Meas. Temp.	.065@80 °F	@ °F	@ °F	@ °F					
Rmc @ Meas. Temp.	.068@80 °F	@ °F	@ °F	@ °F					
Source: Rmf / Rmc	M / C	/	/	/					
Rm @ BHT	.031@118 °	@ °F	@ °F	@ °F					
Circulation Stopped	0700								
Logger on Bottom	1115								



A.P.I.G.P. MICROFILMING

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SIMULTANEOUS

Schlumberger

COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY ANADARKO PRODUCTION COMPANY

WELL WALDEN #11

FIELD SOUTH EUNICE

COUNTY LEA STATE NEW MEXICO

Location: 660' FWL & 990' FSL

Sec 15 Twp 22-S Rge 37-E

Other Services: BHC, HLL, DLL

Permanent Datum G.L. Elev. 3397

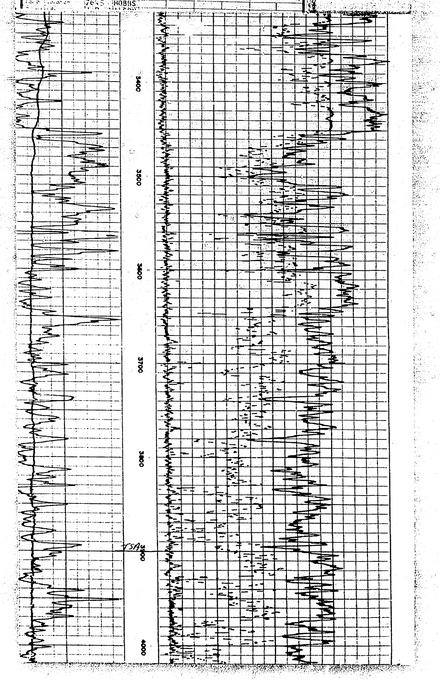
Log Measured From K.B. 11 Ft. Above Perm. Datum

Drilling Measured From K.B.

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

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

Date	12-12-73			
Run No.	ONE			
Depth-Driller	4600			
Depth-Logger	4592			
Btm. Log Interval	4588			
Top Log Interval	0			
Casing-Driller	@ 578 @ 357			
Casing-Logger	552			
Bit Size	7 7/8			
Type Fluid in Hole	SALT MUD			
Fluid Level	FULL			
Dens. / Visc.	10 / 41			
pH / Fluid Loss	10 / 7.8cc			
Source of Sample	FLOW LINE			
Rm @ Meas. Temp.	.052 @ 75 °F			
Rmf @ Meas. Temp.	.049 @ 75 °F			
Rmc @ Meas. Temp.	.078 @ 75 °F			
Source Rmf / Rmc	M / C			
Rm @ BHT	@ 93 °F			
Time Since Circ.	7 HOURS			
Max. Rec. Temp.	93			
Equip. Location	3408 HOBBS			
Recorded By	JONES			
Witnessed By	MR. WILLIAMS			



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SONIC LOG

COMPANY SHELL OIL COMPANY

Well GRIZZELL # 9

Field DRINKARD

Location SEC. 8-22S-37E

County LEA

State NEW MEXICO

Other Surveys
LL, MLL, MGP

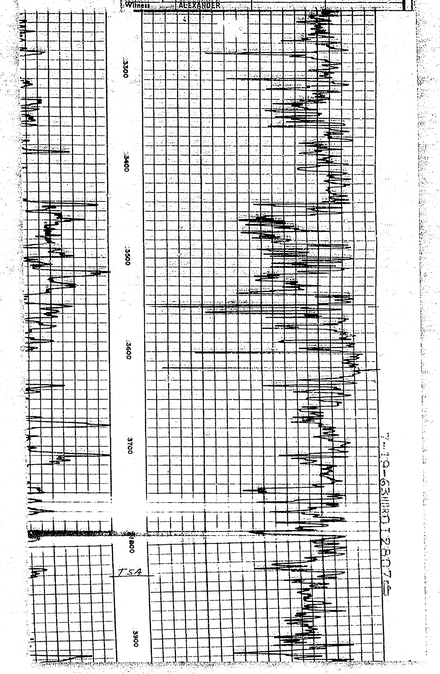
Location of Well
810' FROM S/L
1980' FROM E/L

Elevations: K.B. 3413
D.F. 3412
G.L. 3403

COUNTY LEA
FIELD DRINKARD
WELL GRIZZELL # 9
COMPANY SHELL OIL COMPANY

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	375										
Depth Reached	6535										
Bottom Driller	6502										
Hole Nat.	SWC	GEL-STARCH OIL									
Dens. / Visc.	9.8	48									
Mud Resis.	.056	@ 86 °F		@	°F		@	°F		@	°F
" Rm Bht	.055	@ 100 °F		@	°F		@	°F		@	°F
" pH	5.5	@	°F	@	°F		@	°F		@	°F
Wtr. Loss	24.6	CC 30 min		CC 30 min			CC 30 min			CC 30 min	
" Rmf	.038	@ 85 °F		@	°F		@	°F		@	°F
Bit Size	7 7/8"										
Spacing											
T.D. / Rt.	6532	To CSG		To			To			To	
Rm / Rt		To		To			To			To	
Opr. Rig Time	31 HOURS										
Truck No.	370	HOBBS									
Recorded By	BROWN										
Witness	ALEXANDER										



WELEX

RADIOACTIVITY LOG

COMPANY TEXACO INCORPORATED
WELL C. P. FALBY "B" # 4
FIELD PENROSE SKELLY
COUNTY LEA STATE NEW MEXICO

Location: 1980' FSL 660' FEL
SEC. 8 TWP. 22-S
RGE. 37-E

Other Logs:

Sec. Twp. Rge.

Permanent Datum: GROUND LEVEL Elev. 3412
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Elevation:
K.B. 3423
D.F. 3422
G.L. 3412

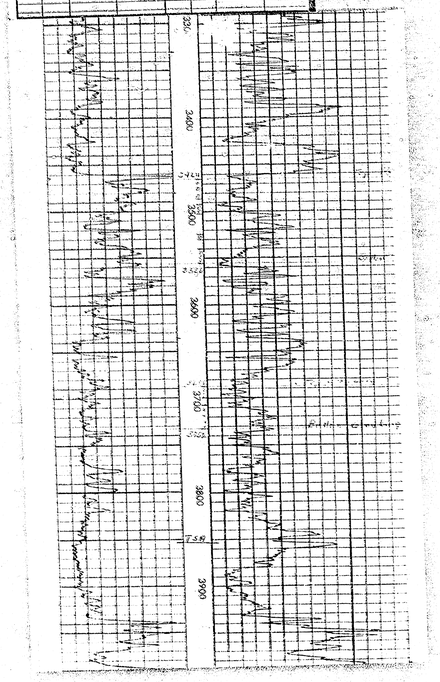
	GAMMA	N. GAMMA		
Type Log	1	2		
Run No.	10-25-60	10-25-60		
Date	6350	6350		
Total Depth Driller	6350	6350		
Permian Depth Driller	6352	6352		
Total Depth Welex	6352	6352		
Survey Region	SOUTH	SOUTH		
Survey Tech	- WATER BASE -			
Mud Data	MUD	MUD		
Type Fluid in Hole	175,000	175,000		
Salinity PPM Cl	10.2	10.2		
Weight lbs/gal	935	935		
Fluid Level	115	115		
Max. Hole Temp.				
Recorded By	J.G. GREER			
Witnessed By	MR. LIPSCOMB			

BORE HOLE RECORD

Run No.	Bit From	To	Size
1	0	3900	10-5/8"
2	3900	6352	7-7/8

CASING RECORD

Size	Wgt	From	To
10-3/4"		0	3900
7-5/8		0	6350



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JOINT VENTURE ECONOMIC OPERATIONS — LEGAL ACREAGE — AS OF 12-31-77

JOINT VENTURE ECONOMIC OPERATIONS	DIV. NO.	HOUSTON - OFFSHORE		PROPERTY NO.		END CODE SUFFIX		
GAS EQ. 1.000000 VARIABLE	LEASE NO.			ECONOMIC OPERATIONS		LSD, SEC, BLOCK, SURVEY		
OIL EQ. 1.000000	FLD. NO.	SOUTH TEXAS ALIENS				COUNTY		

DESCRIPTION	OCT	NOV	DEC	CUMULATIVE	YEAR-TO-DATE	MONTH LAST YEAR	PREVIOUS YEAR	CUMULATIVE
COMPLETIONS - OIL	1	1	1					
GAS								
TOTAL ACTIVE COMPL	1	1	1					
INACTIVE WELLS								
SERVICE WELLS - ACTIVE								
INACTIVE								
GROSS SALES VOLUMES - OIL (BBL)	620	245	430	1,297	2,091	216	797	1,293
GAS (MCF)	1,120	1,040	1,320	3,483	12,902	338	1,317	1,220
NET SALES VOLUMES - OIL/COND (BBL)	240	182	221	643	1,079	120	745	173
GAS (MCF)	536	1,002	961	2,499	1,899	235	917	702
VALUE - OIL/COND $	1,232	724	1,181	3,137	12,539	1,116	1,778	871
GAS $	478	829	693	1,999	6,553	419	595	542
OTHER INCOME $								
TOTAL INCOME	2,240	1,553	1,874	5,136	19,092	1,535	2,373	1,413
CONTROLLABLE EXPENSE - GROSS								
OPERATING								
POWER & FUEL	195	248	246	687	1,206	77	228	197
LUBRICANTS	52	118		170	1,053	64	65	34
CHEMICALS - OIL TREATING		454		454	454		151	74
CHEMICALS - GAS TREATING								
SUPERVISION & GEN'L EXPENSE		341	335	676	2,196	97	169	132
EQUIPMENT/VEHICLE - OTHER								
EQUIPMENT MAINTENANCE								
LEASE & SURFACE								
TOTAL SURFACE REPAIRS	708	690	35	1,433	2,059		687	242
WELL SERVICING - SUBSURFACE	117		118	235	1,267		63	1
OTHER DIRECT COST ALLOCATION	272	913	291	1,476	1,476	602	492	1,476
OVERHEAD - FIELD ALLOCATION								
TOTAL CONTROLLABLE EXP - GROSS	1,327	2,765	1,124	5,216	13,210	902	1,975	1,310
NON-CONTROLLABLE EXPENSE - GROSS								
CORP PAID TO OUTSIDE OPERATORS								
INCOME								
TOTAL NON-CONTR EXPS - GROSS								
JOINT OWNERS PORTION								
NET EXPENSES								
JOINT OPERATIONS BY OTHERS								
FACILITY EXPENSE								
PRODUCTION & SEVERANCE TAX	168	124	21	313	1,267	121	134	167
AD VALOREM TAX								
TOTAL NET EXPENSE	168	124	21	312	1,267	101	134	167
OVERHEAD EXPENSE	67	167	118	372	1,277	198	134	106
TOTAL APC EXPENSE	2,052	3,056	1,673	6,594	15,313	1,201	2,192	1,532
APC CASH FLOW - NET	14-	1,636-	761	824-	3,514-	334	294-	121-
COSTS LSE OR FACILITY EXPENSE	2,052	3,053	1,673	6,564	15,313	1,332	2,326	1,521
ESC TAXES PRICE/SEV	1,335	1,332	1,345	4,011	1,267	1,620	2,134	1,521
/PPT	1,335	1,332	1,345	4,011	1,267	1,620	2,134	1,521
CONTR EXP/GENER (GROSS)	1,327	2,930	1,124	5,381	13,943	1,065	1,975	1,310
APC CONTR EXPS INCOME	1,327	2,930	1,124	5,381	13,943	1,065	1,975	1,310
TOTAL APC EXPS / % INCOME	1,327	2,930	1,124	5,381	13,943	1,065	1,975	1,310
APC GROSS INVESTMENT	124,875	124,873	124,873	124,873	124,873	124,873	124,873	124,873
CUMULATIVE CASH FLOW/INVESTMENT	4839-	4839-	4839-	4839-	4839-	4839-	4839-	4839-

ZIA ENERGY, INC.

Tabulation of Wells That Penetrated San Andres Prior to April 20, 1977

Company	Lease	Well No.	Unit Letter	S-T-R	Completion Date	Total Depth	Completion Interval	Reported TSA	Remarks
Gulf Oil Corp.	S.P.S.U.	220	O	5-22-37	5/15/75	3900'	Shut-in	3837'	SA tstd non-comm
Morris Antwell	Shell "C"	1	P	8-22-32	1/5/70	7624'	D & A	3984'	Drilled & aband
Amoco	Grizzell "B"	1	G	8-22-37	4/28/69	6580'	5908'-5907'		
Texaco	Falby "A"	1	C	8-22-37	6/23/75	6570'	5508'-5890'		
Texaco	Falby "A"	3	F	8-22-37	7/17/71	6558'	5532'-5939'		
Texaco	Falby "A"	4	E	8-22-37	6/10/61	6555'	6455'-6518'	3980'	
Texaco	Falby "B"	1	K	8-22-37	7/9/62	6569'	6400'-6538'		
Texaco	Falby "B"	4	L	8-22-37	11/25/60	6550'	6484'-6536'	3978'	
Shell	Grizzell	7	J	8-22-37	8/28/52	6537'	6450'-6515'		
Shell	Grizzell	8	P	8-22-37	9/30/52	6613'	6520'-6589'		
Shell	Grizzell	9	O	8-22-37	7/27/53	6575'	6459'-6509'		
Yarborough	Grizzell	1	B	8-22-37	4/28/50	6576'	6425'-6560'	3820'	
Gulf Oil Corp.	S.P.S.U.	262	P	8-22-37	6/27/75	3900'	Shut-in	3816'	SA tstd non-comm
Stoltz, Wagner & Brown	Greenwood	1	M	9-22-37	2/28/71	7335'	D & A		Drilled & aband
Anadarko Prodduction Co.	Walden	11	M	15-22-37	2/3/74	9400'	3735'-3885'	3905'	SA tstd 100% wtr
Depco, Inc.	Gulf State	1	C	16-22-37	4/26/59	6602'	5492'-5522'	3830'	
Gulf Oil Corp.	R. E. Cole	5	I	16-22-37	10/30/79	8063'	7841'-8065'		
Gulf Oil Corp.	R. E. Cole	7	H	16-22-37	4/2/48	8063'	7865'-8065'		
Gulf Oil Corp.	R. E. Cole	8	K	16-22-37	6/15/67	7302'	7185'-7210'	3984'	
Gulf Oil Corp.	R. E. Cole	9	N	16-22-37	10/11/67	7335'	6770'-7497'	4005'	
Gulf Oil Corp.	R. E. Cole	10	E	15-22-37	7/25/67	7383'	7312'-1325'	4013'	
Gulf Oil Corp.	R. E. Cole	11	J	16-22-37	2/1/68	7260'	7204'-7235'	3968'	
Gulf Oil Corp.	R. E. Cole	12	D	16-22-37	5/29/68	7350'	7134'-7216'	3992'	
Gulf Oil Corp.	R. E. Cole	13	O	16-22-37	3/30/69	7340'	7120'-7204'	3993'	
Gulf Oil Corp.	R. E. Cole	14	F	16-22-37	9/1771	7402'	7127'-7316'	4011'	
Gulf Oil Corp.	R. E. Cole	15	L	16-22-37	8/19/74	6700'	6398'-6572'	4010'	
Gulf Oil Corp.	R. E. Cole	16	G	16-22-37	8/30/76	6650'	6338'-6602'		
Gulf Oil Corp.	R. E. Cole	17	P	16-22-37	1/17/77	7338'	6308'-6517'	3988'	
Amerada Hess	State "P"	3	B	17-22-37	3/11/76	6650'	6470'-6533'	3840'	
ARCO	Christmas	4	I	17-22-37	7/11/73	6650'	6370'-6637'	3885'	
Bettis, Boyle & Stovall	Patsy "B"	2	N	17-22-37	1/20/72	4030'	3683'-3778'	3906'	SA tstd all water
Campbell & Hedrick	Christmas	1	J	17-22-37	2/9/48	6550'	Drilled & abandoned		
Conoco	Elliott	1	K	17-22-37	6/12/35	4075'	Drilled & abandoned		
Conoco	Elliott	2	A	17-22-37	12/1/74	6650'	6396'-6507'		
John Hendrix Corp.	Morning Glory	1	H	17-22-37	10/26/76	6600'	6357'-6479'	3906'	
Texas Pacific Oil Co.	Elliott State	1	E	17-22-37	9/29/74	6700'	Drilled & aband SA DST--18 MCF--no tree oil		
Texas Pacific Oil Co.	Elliott B-17	3	C	17-22-37	11/28/42	4577'	6465'-6529'		
Texas Pacific Oil Co.	Elliott B-17	4	G	17-22-37	3/31/74	7432'	6378'-6484'	3925'	
Zia Energy, Inc.	Federal	1	K	17-22-37	7/16/79	4310'	2652'-3614'	3823'	SA tstd 100% water
Millard Deck	Patsy "B"	1	C	20-22-37	7/20/71	4412'	3431'-3757'	3843'	SA tstd 100% water

12-22-37

Tabulation of Wells That Penetrated San Andres Prior to April 20, 1977 - Continued

Company	Lease	Well No.	Unit Letter	S-T-R	Completion Date	Total Depth	Completion Interval	Reported TSA	Remarks
		16	C	7-22-37	8/23/75		6488'-6644'	3895'	
Gulf Oil Corp.	Mattern	15	D	7-22-37	9/4/75		6516'-6658'	3899'	
Gulf Oil Corp.	Mattern	16	E	7-22-37	9/15/75		6510'-6670'		
Gulf Oil Corp.	Mattern	6	J	6-22-37	5/21/76		6595'-6710'		
Conoco	Elliott "B"	2	G	6-22-37	8/3/76		6558'-6682'	3963'	
Getty	Grizzell	8	E	6-22-37	5/24/76		6520'-6668'		
Gulf Oil Corp.	Mattern	9	D	6-22-37	10/7/74		6433'-6675'		
Gulf Oil Corp.	Mattern	10	C	6-22-37	5/28/75		6456'-6700'		
Gulf Oil Corp.	Mattern	11	F	6-22-37	6/8/75		6506'-6643'		
Gulf Oil Corp.	Mattern	12	K	6-22-37	7/17/75		6548'-6657'	3908'	
Gulf Oil Corp.	Mattern	13	N	6-22-37	8/2/75		6489'-6602'	3900'	
Gulf Oil Corp.	Mattern	1	M	6-22-37	12/22/76		6462'-6656'	3898'	
Martindale	Pan Cand	1	O	36-21-36	10/10/63		D & A		
Shell	State "D"	5	L	5-22-37	5/29/79		6458'-6684'	3851'	DST-SA 112 MCFPD -- some free oil
Amoco	Grizzell								

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YATES

7 RIVERS

QUEEN

PENROSE

GRAYBURG

SAN ANDRES

LEA COUNTY NEW MEXICO EUMONT FIELD

ZIA ENERGY INC. #1 State "E"
1907' FNL & 1901' FWL, Sec. 17, T19S R35E, Proj 376

Casing: 8 5/8" 315/210 sx., 5", 3435/300 sx., 4" liner 3400-3929'/70 sx.

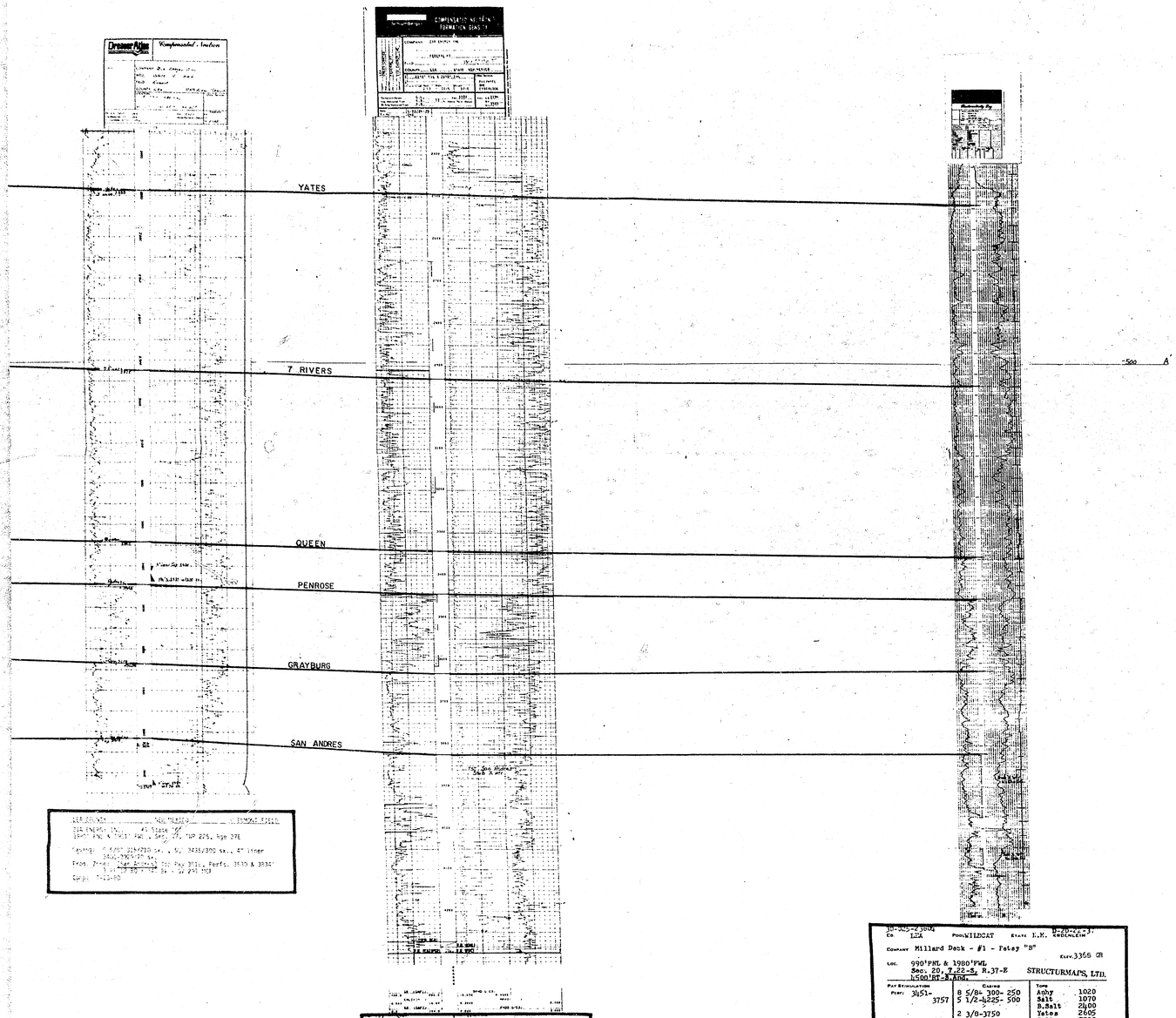
Prod. Zone: [San Andres] Top Pay 3818', Perfs. 3810 & 3834'
3 JSPF 12 BO + 151 BW - GW 291 MCF

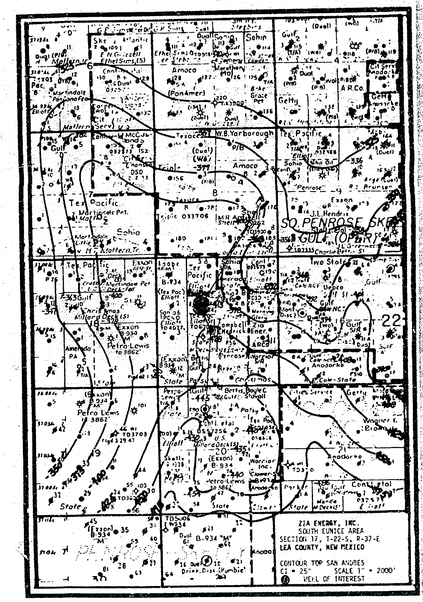
Comp: 1-23-80

LEA COUNTY NEW MEXICO VACUUM MIDDLE PEN

WELL GULF OIL CORP., 200 South Pecos Skelly Unit
LOC Sec 6-17S-35E, 1650' FSL 990' FEL Sec. 2 mi SW/Tatum

Spud: 5-12-75; Comp: 6-26-75 Elev: 3937' Cbd, TD 9100' San And
Casing: 8-5/8" 1100'/600 sx., 5-1/2" 9/0'/475 sx.
Yates Info: Corr (Cores) 3445-76', rec 90', no desc, Corr'd (Cores) 3545-59', rec 50', no desc, Corr'd (Cores) 3733-53', rec 15





ZIA ENERGY, INC.
SOUTH EUNICE AREA
EUMONT FIELD
LEA COUNTY, NEW MEXICO

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
ZIA EXHIBIT NO. 2
CASE NO. 6861

N.M.O.C.C. RECORDS

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BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
ZIA ENERGY EXHIBIT NO. 7
CASE NO. 6851

SAMPLE TAKEN FROM

Schlumberger

COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY ZIA ENERGY INC

WELL FEDERAL #1

FIELD UNDESIGNATED

COUNTY LEA STATE NEW MEXICO

LOCATION 2310' FSL & 2310' FWL

Other Services: DLL/MSFL BHC CYBERLOOK

SEC. 17 TWP. 22-S RGE. 37-E

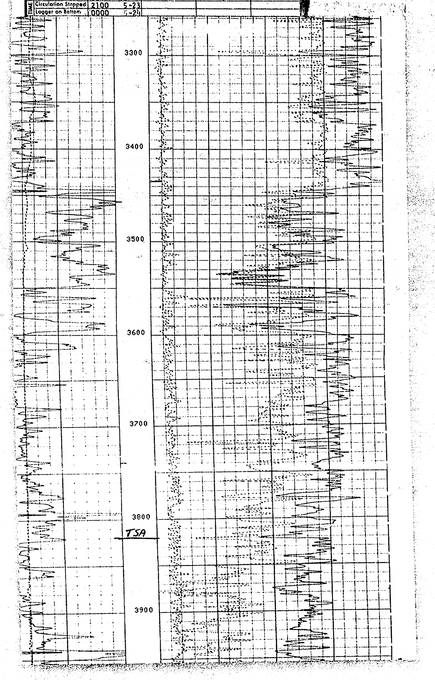
Permanent Datum G.L. Elev. 3382

Log Measured from K.B. 12 Ft. Above Perm. Datum

Drilling Measured From K.B.

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

Date	5-23/24-79					
Run No.	ONE					
Depth-Driller	4300					
Depth-Logger	4310					
Btm. Log Interval	4302					
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	
Source of Sample	PIT					
Rm @ Meas. Temp.	.054 @ 74 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.041 @ 74 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	M					
Rm @ BHT	.04 @168 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Circulation Stopped	2100 5-23					
Logger on Bottom	0000 5-24					



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BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 4
CASE NO. 6861

DresserAtlas — Compensated Neutron

COMPANY
WELL
FIELD
COUNTY
LOCATION

FIELD PRINT

3300
3400
3500
3600
3700
3800
3900

shales at 3830 & shale @ 3834'

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 5
CASE NO. 6861

Dresser Atlas — *Sidewall Neutron Gamma Ray*

FILE NO.

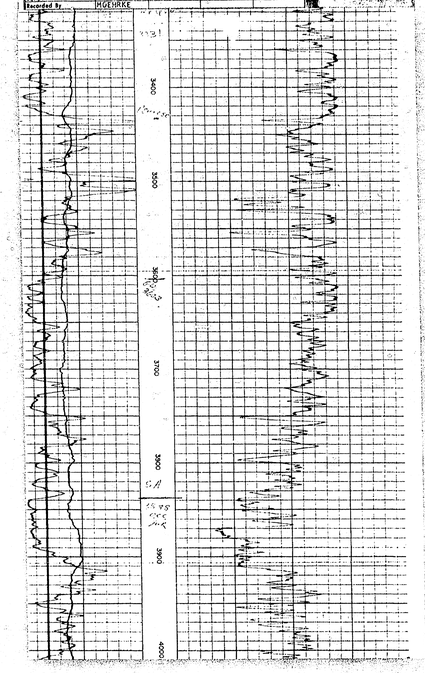
COMPANY TEXAS PACIFIC OIL COMPANY
WELL ELLIOTT B-17 NO. 4
FIELD DRINKARD
COUNTY LEA STATE NEW MEXICO
LOCATION: 1980'FNL & 1980'FEL
SEC 17 TWP 22-S RGE 37-E

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	1098				
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	
Source of Sample	CIRCULATED				
Rm @ Meas. Temp.	.081 @ 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	HGEHRKE				
Witnessed By					



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BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 5
CASE NO. 6861

Welex — **ACOUSTIC VELOCITY LOG**

COMPANY GULF OIL CORPORATION

WELL R. E. COLE (NCT-A) # 9

FIELD UNDESIGNATED

COUNTY LEA STATE NEW MEXICO

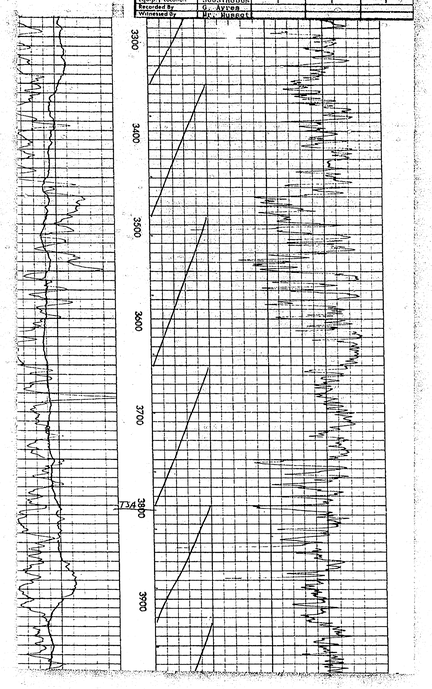
Location 1075' FSL 2395' FWL

Other Services: Guard Forxo FF NSG

Sec. 16 Twp. 22-S Rge. 37-E

Permanent Datum: Ground Level Elev. 3384 — Elev. K.B. 3396
Log Measured From: K. B. 12 Ft. Above Perm. Datum — D.F. 3395
Drilling Measured From: Kelly Bushing — G.L. 3384

Date	9-3-67					
Run No.	One					
Depth—Driller	7435					
Depth—Welex	7430					
Btm. Log Inter.	7330					
Top Log Inter.	10					
Casing—Driller	9-5/8" @ 1183	@	@	@	@	
Casing—Welex						
Bit Size	8-3/4"					
Type Fluid in Hole	Mud					
Dens. / Visc.	10.1/36					
pH / Fluid Loss	110 ml	ml	ml	ml	ml	
Source of Sample	Circulation					
R_m @ Meas. Temp.	.05 @ 82°F	@ °F	@ °F	@ °F	@ °F	
R_mf @ Meas. Temp.	.045@ 84°F	@ °F	@ °F	@ °F	@ °F	
R_mc @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F	@ °F	
Source: R_m / R_mf	Measured	/	/	/	/	
R_m @ BHT	.04 @120°F	@ °F	@ °F	@ °F	@ °F	
Time Since Circ.						
Max. Rec. Temp.	120 @ R.H.	°F @	°F @	°F @	°F @	
Equip. Location	3005Hobbs	/	/	/	/	
Recorded By	G. Ayres					
Witnessed By	Mr. Burnett					



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BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 7
CASE NO. 6961

Welex

COMPENSATED ACOUSTIC VELOCITY LOG

COMPANY GULF OIL COMPANY - U. S.

WELL R. L. COLE (NCT - A) # 14

FIELD SOUTH McCORMACK

COUNTY LEA STATE NEW MEXICO

Location: 2310' FNL & 1650' FWL

Sec. 16 Twp. 22-S Rge. 37-E

Other Services:

Permanent Datum: Ground Level Elev. 3396'

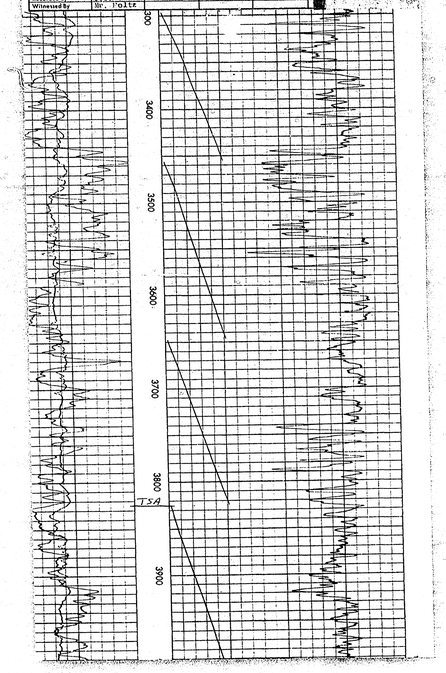
Log Measured From: K.B. + 11 Ft. Above Perm. Datum

Drilling Measured From: KELLY BUSHING

Elev.: K.B. 3407'
D.F. 3406'
G.L. 3396'

COMPANY GULF OIL Company
WELL R. L. COLE (NCT-A) # 14
FIELD SOUTH McCORMACK
COUNTY LEA STATE NEW MEXICO

Date	8/20/71						
Run No.	One						
Depth-Driller	7402						
Depth-Welex	7402						
Btm. Log Inter.	7398						
Top Log Inter.	Surface						
Casing-Driller	8-5/8" @ 1156	@		@		@	
Casing-Welex	8"						
Bit Size	7-7/8"						
Type Fluid in Hole	Gel Chem						
Dens. | Visc.	10.1 | 40						
pH | Fluid Loss	11.0 | 2ml		ml		ml		ml
Source of Sample	Circulated						
R_m @ Meas. Temp.	@ °F	@ °F		@ °F		@ °F	
R_mf @ Meas. Temp.	@ °F	@ °F		@ °F		@ °F	
R_mc @ Meas. Temp.	@ °F	@ °F		@ °F		@ °F	
Source R_m, R_mf	-	-		-		-	
R_m @ BHT	@ °F	@ °F		@ °F		@ °F	
Time Since Circ.	hr.	hr.		hr.		hr.	
Max. Rec. Temp.	°F @	°F @		°F @		°F @	
Equip. Location	8443 | Robbs	-		-		-	
Recorded By	J. R. Coulter						
Witnessed By	Mr. Pozzi						



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BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 8
CASE NO. 6861

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

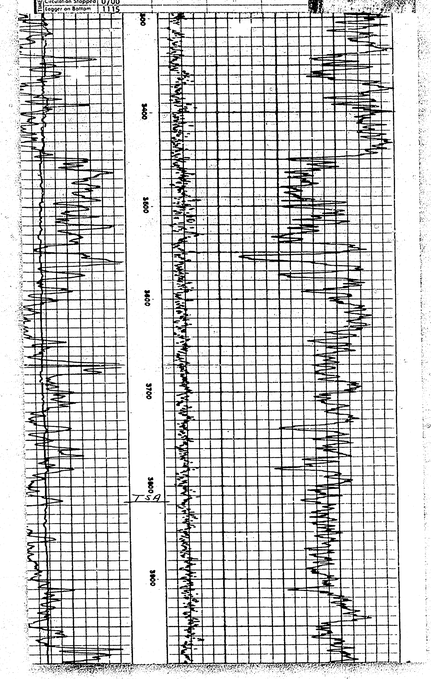
COMPANY GULF ENERGY & MINERALS COMPANY-US
WELL R.E. COLE (NCT-A) #16
FIELD DRINKARD
COUNTY LEA STATE NEW MEXICO
1980' FNL & 1980' FEL
Other Services: NONE

Sec.	Twp.	Rge.	
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
Casing-Logger	1182
Bit Size	7 7/8
Type Fluid in Hole	BRINE WATER
Dens. / Visc.	10.1 / 30
pH / Fluid Loss	9 / NC cc
Source of Sample	CIRCULATED
Rm @ Meas. Temp.	.045 @ 80 F
Rmf @ Meas. Temp.	.045 @ 80 F
Rmc @ Meas. Temp.	.088 @ 80 F
Source Rmf / Rmc	M / C
Rm @ BHT	.031 @ 118 F
Circulation Stopped	0700
Logger on Bottom	1115



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BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
EXHIBIT NO. 9
CASE NO. 6861

SIMULTANEOUS

Schlumberger

COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY ANADARKO PRODUCTION COMPANY

WELL WALDEN #11

FIELD SOUTH EUNICE

COUNTY LEA STATE NEW MEXICO

Location: 660' FWL & 990' FSL,

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

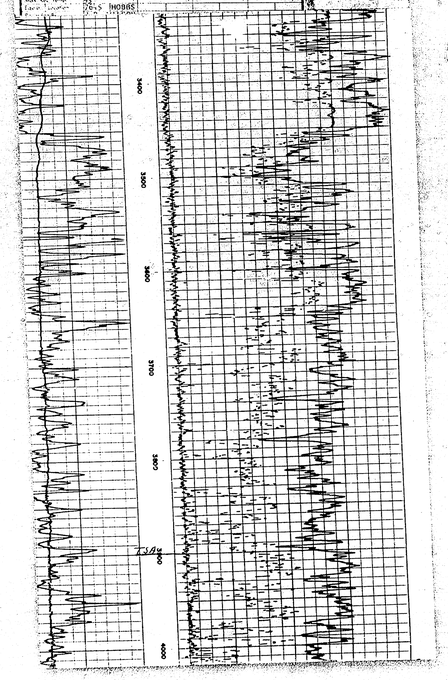
Other Services: BHC, HLL DLL

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

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	4593									
Btm. Log Interval	4589									
Top Log Interval	0									
Casing—Driller	8 5/8@ 357	@		@		@				
Casing—Logger	357									
Bit Size	7 7/8									
Type Fluid in Hole	SALT MUD									
Fluid Level	FULL									
Dens. / Visc.	10	41								
pH / Fluid Loss		7.8ml		ml		ml			ml	
Source of Sample	CIRC									
Rm @ Meas. Temp.	.059 @ 75 °F		@ °F		@ °F		@ °F		@ °F	
Rmf @ Meas. Temp.	.049 @ 74 °F		@ °F		@ °F		@ °F		@ °F	
Rmc @ Meas. Temp.	.078 @ 75 °F		@ °F		@ °F		@ °F		@ °F	
Source of Rmf / Rmc	M / C									
Rm @ BHT	.093 @ 93 °F		@ °F		@ °F		@ °F		@ °F	
Time Since Circ.	12 HOURS									
Max. Rec. Temp.	93		°F		°F		°F			
Equip. Location	3015 HOBBS									



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SONIC LOG

COMPANY SHELL OIL COMPANY
WELL GRIZZELL # 9
FIELD DRINKARD
LOCATION SEC. 8-22S-37E
COUNTY LEA
STATE NEW MEXICO

Other Surveys
I L, MLL, HDP

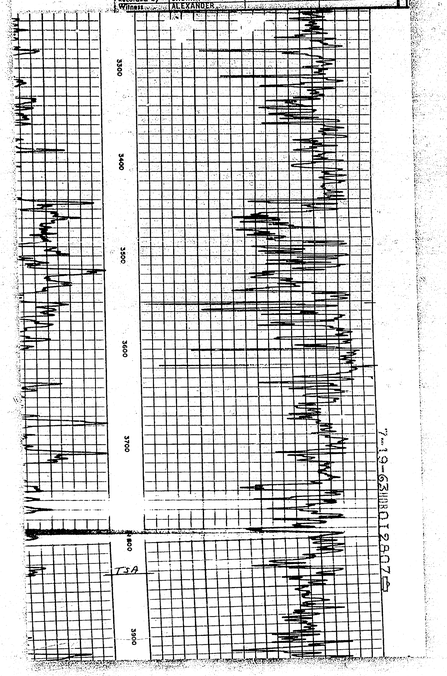
Location of Well
810' FROM S/L
1980' FROM E/L

Elevations K.B. 3112
D.F. 3112
or G.L. 3103

Log Depths Measured From DF 9 Ft. above GL

Run No.	ONE		
Date	7-10-61		
First Reading	6532		
Last Reading	0		
Feet Measured	6532		
Csg. Schlum.			
Csg. Driller	7"		
Depth Reached	6536		
Bottom Driller	6542		
Mud Type	SALT GEL, STARCH OIL		
Dens. / Visc.	9.8 / 43	/	/
Mud Resist.	.056 @ 86 °F	@ °F	@ °F
" Res. BHT	.045 @ 109 °F	@ °F	@ °F
" pH	8.5 @ °F	@ °F	@ °F
" Wtr. Loss	20.4 CC 30 min	CC 30 min	CC 30 min
" Rmf	.038 @ 85 °F	@ °F	@ °F
Bit Size	7 7/8"		
Spacing			
T. S.	18 Rg. 6532 To CSG	To	To
T. Rg.	To	To	To
Opr. Sig. Time	13 HOURS		
Truck No.	3701-HOBBS		
Recorded By	BROWN		
Witness	ALEXANDER		

RUN 1



B-22S-37E
GRIZZELL #9
DRINKARD
RUN NO. 1a
6861

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WELEX

RADIOACTIVITY LOG

Company TEXACO INCORPORATED
Well C. P. FALBY "B" # 4
Field PENROSE SKELLY
County LEA State NEW MEXICO

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

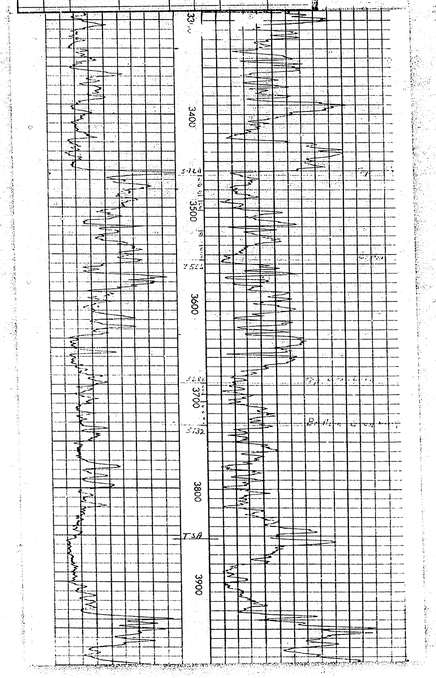
Sec. ____ Twp. ____ Rge. ____

Elevation
KB 3423
DF 3422
GL 3412

Permanent Datum GROUND LEVEL Elev. 3412
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

	GAMMA	N. GAMMA		
Type Log				
Run No.	One	Two		
Date	10-25-60	10-25-60		
Total Depth Driller	6550	6550		
Present Depth Driller	6550	6550		
Total Depth Wrlr.	6557	6557		
Survey Begins	6557	6557		
Survey Ends	SURF.	SURF.		
Mud Data	- WATER BASE -			
	MUD	MUD		
Type Fluid in Hole	175,000	175,000		
Salinity PPM Cl	10.2	10.2		
Weight lb./gal.	235	235		
Fluid level	114	115		
Max. Hole Temp.				
Recorded By	J.G. GREER			
Witnessed By	MR. LIPSCOMBE			

Run	BORE HOLE RECORD Bit	From	To	CASING RECORD Size	Wgt.	From	To
	15"	0	-	10-3/4"		0	
	9-7/8"	3900	-	7-5/8"		0	3900
	6-3/4"	6500	6550				



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HOBBS, NEW MEXICO
2
DATE
1960
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