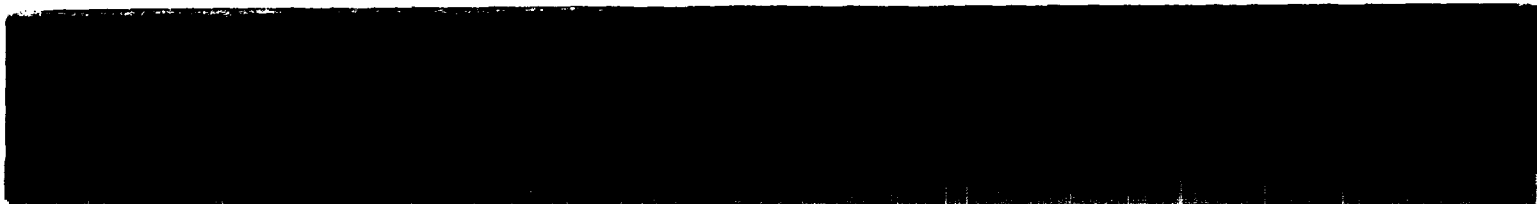


PACKET 2
TEMPERATURE SURVEYS & CEMENT BOND LOGS

VACUUM GLORIETA EAST UNIT

N.M.O.C.D. HEARING NUMBER 10846

ANALYSIS OF THIRTY-FIVE VACUUM ABO UNIT
WELL COMPLETIONS WITHIN THE VACUUM GLORIETA EAST UNIT
WATERFLOOD PROJECT "AREA OF REVIEW"



VACUUM ABO unit # 01-09

FORM 283002

LANE WELLS ACOUSTIC Cement Bond

FILE NO. Field Print 2 - Houston 7 - Midland 1 - DC # 1 - Jilly	COMPANY <u>Standard Oil Co of Tex</u>
	WELL <u>State 4 - 2449</u>
	FIELD <u>Vacuum Abo Well No. 1-</u>
	COUNTY <u>NEB</u> STATE <u>Nebraska</u>
LOCATION: <u>1650 FSL 1650 FEL</u> <u>175 R35E</u>	
SEC <u>27</u> TWP _____ RGE _____	

Permanent Datum <u>2 Round Level</u> Elev. <u>392.7</u>	KB _____
Log Measured from <u>K.B.</u> <u>2.5</u> Ft. Above Permanent Datum	DF _____
Drilling Measured from <u>K.B.</u>	GL _____

Date	2/27/64	CSG. RECORD	Surface	Protection	Production
Run No.	<u>ONE</u>	Size			<u>7"</u>
First Reading	<u>9010</u>	Wt./Ft.			<u>20 #</u>
Last Reading	<u>3800</u>	Grade			
1. Measured	<u>5210</u>	Type Joint			
Depth Reached-LW	<u>9011</u>	Top			
Bottom-Blower	<u>9050+</u>	Bottom			
Type Fluid in Csg.	<u>water</u>	PRIMARY CEMENTING DATA			
Density of Fluid		Type Cement	<u>50 sacks N/cord</u>	<u>to 270</u>	
Fluid Level	<u>Full</u>	Vol. of Cement	<u>50 sacks N/cord</u>	<u>to 40%</u>	
Max. Temp. Deg. F.		Additive	<u>200 sacks N/cord</u>	<u>to 70</u>	
Tool Seals No.	<u>1405</u>	% Additive			
Tool Diam.	<u>3 1/2</u>	Retarder			
Standoff Size		% Retarder			
Logging Speed	<u>60' M</u>	Slurry Wt.			
		Water Loss			
		Drig. Mud Type			
		Drig. Mud Wt.			
PRIMARY CEMENTING PROCEDURE					
Truck or Unit No.	<u>P193</u>	Started Pumping	DATE	Preceding Fluid	
Location	<u>Artesia</u>	Plug on Bottom		Vol.	Bbls.
Oper. Rig Time	<u>2 1/2 hrs.</u>	Pres. Released		Returns: Full	Partial
Recorded by	<u>Thompson & Hawk</u>	Started Bond Log		Pipe Rot. During Pump	
Witnessed by	<u>Dale Davis</u>	Finished Bond Log		Pipe Rot. After Plugdo	

Vacuum Abo Unit # 01-09

NL McCullough

BOND CEMENT AND SONIC SEISMOGRAM LOG

GAMMA RAY

FILE NO.

COMPANY

Phillips Petroleum Co

WELL

VACUUM ABO UNIT TRACT 1 Well #9

FIELD

VACUUM ABO REEF

COUNTY

LEA

STATE

New Mexico

LOCATION

1650' FSL 1650' FEL

OTHER SERVICES:

SEC. *27* TWP. *17S* RGE. *35E*

PERMANENT DATUM

GROUND ELEV.

LOG MEASURED FROM

12' AGL

DRILLING MEASURED FROM

ELEVATIONS:

KB

DF

GL

DATE

28 JUNE 79

RUN NO.

ONE

TYPE LOG

GR-RC-SS

DEPTH-DRILLER

5996' (PSTD)

DEPTH-LOGGER

5986'

BOTTOM LOGGED INTERVAL

5982'

TOP LOGGED INTERVAL

3200

TYPE FLUID IN HOLE

WATER

SALINITY PPM CL.

DENSITY LB./GAL.

LEVEL

280'

MAX. REC. TEMP. DEG. F.

OPR. RIG TIME

3 HOURS

RECORDED BY

MCKINZEY

WITNESSED BY

ALIEN

RUN

BORE HOLE RECORD

CASING RECORD

NO.

BIT

FROM

TO

SIZE

WGT.

FROM

TO

9 5/8"

SURT 3314'

7"

SURT 9010'

DATE RECORDED

TIME STARTED

TIME FINISHED

LOGGED INTERVAL

LOGGED CEMENT TOP

28 JUNE 79

800 AM

1101 AM

3200 - 5982'

4100'

TOOL MODEL NO.

DIAMETER

LENGTH

GBCS-3.5

3.5" x 2"

4'

CEMENTING DATA

2

1

SQUEEZE NO. 1

SQUEEZE NO. 2

SQUEEZE NO. 3

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (R)

FOLD HERE



Acoustic Cement Bond Log VDL Signature

WELL NO.	COMPANY	PHILLIPS PETROLEUM COMPANY	
	WELL	VAC ABO UNIT SANTA FE NO. 6-68	
	FIELD	VACUUM EDGE ABO	
	COUNTY	LEA	STATE NEW MEXICO
	LOCATION:	1735' FNL & 990' FEL	
	SEC 34	TWP 17-S	RGE 35-E
	Other Services		

Permanent Datum	GROUND LEVEL	Elev.	3922	Elevations:
Log Measured from	K. B.	14	Ft. Above Permanent Datum	KB 3936
Well Measured from	K. B.			DF 3933
				GL 3922

Date	6-19-79	CSG. RECORD	Surface	Protection	Production	Liner
Well No.	ONE	Size	8 5/8		5 1/2	
Depth-Driller	9000	Wt./Ft.				
Depth-Logger	7975	Grade				
Depth Logged Int.	7969 -	Type Joint				
Depth Logged Int.	3400 -	Top	SURF.		SURF.	
Depth Measured	4569	Bottom	2300		T.D.	
Fluid in Csg.	WATER	PRIMARY CEMENTING DATA				
Quality of Fluid	-	Type Cement				
Fluid Level	FULL	Vol. of Cement				
Temp. Deg. F.	-	Additive				
Series No.	1408M	% Additive				
Diam.	3 5/8	Retarder				
Off Size	MECH	% Retarder				
Pumping Speed	30	Slurry Wt.				
Log Type	GR	Water Loss				
Log	1	Drig. Mud Type				
Setting	448	Drig. Mud Wt.				
Units/Div.	10	PRIMARY CEMENTING PROCEDURE				
Work or Unit No.	MP-4001	Started Pumping	DATE	Preceding Fluid		
Location	HOBBS	Plug on Bottom		Vol. Bbls.		
Log Time	5 HOURS	Pres. Released		Returns: Full Partial None		
Recorded by	CASTLE	Started Bond Log	08306-19	Pipe Rot. During Pumping: Yes No		
Witnessed by	ALLEN	Finished Bond Log	12306-19	Pipe Rot. After Plugdown: Yes No		

CALIBRATION TAKEN IN FREE PIPE 3850'

LOG RUN IN STEP #1

REMARKS

FOLD HERE

VACUUM ABO UNIT 10-06



McCullough

SCINTILLOMETER
NUCLEAR

TEMPERATURE SURVEY

FILING NO. WT-

19084

COMPANY STANDARD OIL CO. OF TEXAS

WELL ~~STATE 6-24-46~~ VAC. ABO. 10-6

FIELD VACUUM ABO

COUNTY LEA STATE NEW MEXICO

LOCATION:

1650' FSL & 330' FWL

SEC. 34 TWP. 17-S RGE. 35-E

ELEVATIONS:

PERMANENT DATUM GROUND LEVEL ELEV. 3933'

KB. 3946'

LOG MEASURED FROM KB 13 FT. ABOVE PERMANENT DATUM

DF. 3945'

DRILLING MEASURED FROM KELLY RUSHING

GL. 3933'

DATE 7-26-61

RUN NO. ONE

TYPE LOG GAMMA RAY

DEPTH-DRILLER 9100'

DEPTH-LOGGER 3800'

BOTTOM LOGGED INTERVAL 3800'

TOP LOGGED INTERVAL 2800'

TYPE FLUID IN HOLE WATER

SALINITY PPM CL. -

DENSITY LB./GAL. -

LEVEL FULL

MAX. REC. TEMP. DEG. F 125° F

OPR. RIG TIME -

RECORDED BY CLARK

WITNESSED BY MR. PULLIG

DISTRIBUTION MADE:

8-16-61

HOUSTON

MIDLAND

MONAHANS

RUN BORE HOLE RECORD

CASING RECORD

NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1	12-1/4	0	3135	8-5/8	-	0	3135
	7-7/8	0	9100	5-1/2	-	0	9100

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (7)

NEUTRON

EQUIPMENT DATA

GAMMA RAY TEMPERATURE

RUN NO.	LOG TYPE	TOOL MODEL NO.	DIAM.	DETECT MODEL NO.	TYPE	LENGTH	SOURCE MODEL NO.
ONE	TEMP.	-	1.75"	-	-	-	-

GENERAL



SCINTILLOMETER

NUCLEAR

FILING NO. WT-19229

WELL STATE 6-99-18

COUNTY LEA STATE NEW MEXICO

990' FSL & 1650' FWL

OTHER SERVICES

SEC. 34 TWP. 17-5 RGE. 34-E

ELEVATIONS:

PERMANENT DATUM	GROUND LEVEL	ELEV.	3933
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KB. 3946

LOG MEASURED FROM KB , 13 FT. ABOVE PERMANENT DATUM

DF. 3941

DRILLING MEASURED FROM KELLY BUSHING

GL. 3933

DATE	10-1-61
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RUN NO.	ONE
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TYPE LOG	TEMPERATURE DISTRIBUTION MADE
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DEPTH—DRILLER

DEPTH—LOGGER

BOTTOM LOGGED INTERVAL	3500'
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TOP LOGGED INTERVAL	0'
---------------------	----

TYPE FLUID IN HOLE	WATER
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SALINITY PPM CL.

DENSITY LB./GAL.

LEVEL	FIG. 1.
-------	---------

MAX. REC. TEMP. DEG. F	172°
------------------------	------

OPR. RIG TIME	2 HOURS
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RECORDED BY	ROSE
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WITNESSED BY	MR. SESSIONS
--------------	--------------

BORE HOLE RECORD				CASING RECORD			
RUN NO.	SIT	FROM	TO	SIZE	WGT.	FROM	TO
1	11"	000	3190	8 5/8	24	000	3190
2	7 7/8	3190	9100	5 1/2	15	000	9100

VACUUM ABO Unit 10-09

 WELEX		TEMPERATURE LOG	
COMPANY Standard Oil Company of Texas WELL State 6-34 # 9 FIELD Vacuum-ABO County Lea State N.M.	COMPANY <u>STANDARD OIL COMPANY of TEXAS</u>		
	WELL <u>STATE 6-34 # 9 Vac 10-9</u>		
	FIELD <u>VACUUM-ABO</u>		
	COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u>		
	Location <u>1980' FSL 2310' FEL</u>		Other Services:
	Sec. <u>34</u> Twp <u>17-S</u> Rge <u>35-E</u>		
Permanent Datum <u>Ground Level</u> Elev. <u>3925</u>		Elev.: K.B. <u>3938</u>	
Log Measured From <u>K. B. 13</u> Ft. Above Perm. Datum		D.F. <u>3937</u>	
Drilling Measured From <u>Kelly Bushing</u>		G.L. <u>3925</u>	
Run No.	- One -		
Date & Time Survey	<u>10-26-61/ 5:00PM</u>		
Date & Time Cementing	<u>10-26-61/ 12:30PM</u>		
Type Cementing Operation	Primary		
Depth Driller	9100		
Depth Welox	9055		
Logged Interval	<u>50 to 3500</u>		to
Casing Driller	<u>5-1/2 @ 9100</u>		@
Float Coller-D.V. Tool	-		
Squeeze Depth	-		
Amount & Type Cement	<u>679 Sks. Incor</u>		
Amount & Type Admix	<u>969 Diacel "D". 1210</u>		<u>Diacel "A"</u>
Type Fluid in Hole	Water		
Fluid Level	-		
Salinity PPM Cl	-		
Weight lb/gal-Vis.	-		
Approx. Logged Cem. Top	570		
Calculated Cement Top	3000		
Max. Hole Temperature	<u>3500 105 °F.</u>		°F.
Tool No.	9631		
Spacing Recorded	-		
Equipment-Location	<u>3003 Hobbs</u>		
Recorded by	Greer		
Witnessed by	Mr. Session		

CASING RECORD

BOPE LOG RECORD

Do not copy



Temperature Survey

Field
print

WELL VACUUM EDGE UNIT WELL #5

FIELD VACUUM (Abo) 11/11 13-5

COUNTY LPA STATE New Mexico

660 FEL 1980 FNL

OTHER SERVICES

SEC. 5 TWP. 18-S RGE. 35-E

ELEVATIONS:

PERMANENT DATUM GL ELEV. 3550

KB 3565

LOG MEASURED FROM 15 FT. ABOVE PERMANENT DATUM

DF. _____

DRILLING MEASURED FROM KR

GL. 3565

DATE	3-12-61
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RUN NO.	ONE
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TYPE LOG	TEMPERATURE
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DEPTH-DRILLER	9100
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DEPTH—LOGGER	3800
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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TOP LOGGED INTERVAL	3 8 0 0
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TYPE FLUID IN HOLE	Oil
--------------------	-----

SALINITY PPM CL

DENSITY LB./GAL.

LEVEL

MAX. REC. TEMP. DEG. F.

OPR. RIG TIME

RECORDED BY

WITNESSED BY

RUN	BORE HOLE RECORD	CASING RECORD
-----	------------------	---------------

NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
17	0	304	13 1/2	—	0	304	
11	304	3276	8 1/2	—	0	3276	
7 1/2	3276	9100	5 1/2	—	0	9100	

THIS HEARING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33

NEAR O'NEAL

NEUTRON

GAMMA RAY

BLIN NO

LOG TYPE

TOOL MODEL NO.

DIAM.

DETECT

TYPE

LENGTH

SOURCE MODEL

SERIAL NO.

GENERAL



COMPANY

STANDARD OIL COMPANY OF TEXAS

WELL

WELL NO. 61 YUC ABC 13-6

FIELD

YUC ABC

LOCATION

COUNTY

LIFE

STATE

Texas

Casing

Collars Located At:

Perforated Zones

Location

No. Of
Shots

FROM:

TO:

FROM:

TO:

FROM:

TO:

FROM:

TO:

FROM:

TO:

FROM:

TO:

GUN

BOTTOM

Log Meas. From

KDR

Drig. Meas. From

Perm. Datum

GROUND LEVEL

Casing Size:

5 1/2"

Weight:

20

Type:

Type of Fluid in Hole:

Fluid Level:

Trk. No. 16: W. 1-6

Trk. Oper. 1-6

Ticket No.

Type of Down Hole Tool Used:

1" Tapered Rod

Date

4-9-61

Witnessed By Mr.

P. J. RY

REMARKS OR OTHER DATA

APPARENT TOP OF CEMENT = 3290

DISTRIBUTION MADE:

6-23-61/25M

HOUSTON

MIDLAND

MONAHANS

N M Conn

VACUUM ABO unit 13-07



McCullough

SCINTILLOMETER
NUCLEAR

TEMPERATURE SURVEY

FILING NO.

WTR18777

*well
file*

COMPANY STANDARD OIL COMPANY OF TEXAS

WELL VACUUM EDGE UNIT WELL #7 *VAC ABO 13-7*

FIELD VACUUM (ABO)

COUNTY LEA STATE NEW MEXICO

LOCATION: 1980' FEL & 2080' FNL

OTHER SERVICES:

SEC. 5 TWP. 18-S RGE. 35-E

ELEVATIONS:

PERMANENT DATUM GROUND LEVEL ELEV. 3953'

KB. 3968'

LOG MEASURED FROM KB, 15 FT. ABOVE PERMANENT DATUM

DF. -

DRILLING MEASURED FROM KELLY BUSHING

GL. 3953'

DATE 4-11-61

RUN NO. ONE

TYPE LOG GAMMA RAY

DEPTH-DRILLER 8975' 8925' PRTD

DEPTH-LOGGER 3401'

BOTTOM LOGGED INTERVAL 3400'

TOP LOGGED INTERVAL 3050'

TYPE FLUID IN HOLE WATER

SALINITY PPM CL -

DENSITY LB/GAL. -

LEVEL FULL

MAX. REC. TEMP. DEG. F 128°F

OPR. RIG TIME 3 HOURS

RECORDED BY EBELING

WITNESSED BY MR. RIGSBY

DISTRIBUTION MADE:

1-24 4/1/61

HOUSTON 2

MIDLAND 1

MONAHANS 1

HOBBBS 1

BORE HOLE RECORD				CASING RECORD			
RUN NO.	BIT	FROM	TO	SIZE	FROM	TO	
1	11	0	3233	8-5/8	0	3233	
	7-7/8	3233	8975	5-1/2	0	8975	

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-23

EQUIPMENT DATA

TEMPERATURE

NEUTRON

RUN NO.	TOOL MODEL NO.	DIAM.	DETECT. MODEL NO.	RUN NO.	LOG TYPE	TOOL MODEL NO.	DIAM.	DETECT MODEL NO.
ONE	TEMP.	3.5"	TEMP. PROBE					

FOLD HERE

VACUUM A30 unit 13-12

NL McCullough

BOND CEMENT AND/OR SONIC SEISMOGRAM LOG

FILING NO.

C. FILES

WBC-SS-1416

COMPANY PHILLIPS PETROLEUM COMPANY

WELL NO. 1312

FIELD VACUUM

COUNTY LEA STATE NEW MEXICO

LOCATION

OTHER SERVICES:

SEC. TWP. RGE.

ELEVATIONS:

PERMANENT DATUM ELEV.

LOG MEASURED FROM 10' ABV. GL

DRILLING MEASURED FROM

KB

DF

GL

DATE 1-13-81

RUN NO. ONE

TYPE LOG BOND CEMENT-SONIC SEISMOGRAM

DEPTH-DRILLER

DEPTH-LOGGER 6074'

BOTTOM LOGGED INTERVAL 6070'

TOP LOGGED INTERVAL 2750'

TYPE FLUID IN HOLE WATER/OIL

SALINITY PPM CL.

DENSITY LB./GAL.

LEVEL 575'

MAX. REC. TEMP. DEG. F.

OPR. RIG TIME 4 HRS.

RECORDED BY VERTREES

WITNESSED BY MR. WILLIAMS

RUN BORE HOLE RECORD

CASING RECORD

NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1				5-1/2"		0	TD

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-33 (4)

LOGGING AND EQUIPMENT DATA (BOND CEMENT LOG)

DATE RECORDED	1-13-81	TOOL MODEL NO.	5547-0-1
TIME STARTED	10:00	DIAMETER	3.5" x 2.0625"
TIME FINISHED	2:00	LENGTH	17' (4' SPACING)
LOGGED INTERVAL	6070'-2750'		

FOLD HERE

Vacuum ABO unit 13-13

FORM NO. 1-60

PAN GEO ATLAS CORP.



Temperature Log

FILE NO.	COMPANY <u>STANDARD OIL Co. OF TEXAS</u>	
	WELL <u>VAC EDGE UNIT #13</u>	
	FIELD <u>VACUUM ABO 13-13</u>	
	COUNTY <u>Lea</u>	STATE <u>New Mexico</u>
	LOCATION: <u>2310 FSL</u> <u>660 FEL</u> <u>Sec-5-18S-35E</u>	
SEC _____ TWP _____ RGE _____		Other Services

Permanent Datum <u>G.L.</u>	Elev. <u>3944</u>	Elevations:
Log Measured from <u>KB</u>	<u>15'</u> Ft. Above Permanent Datum	KB <u>3959</u>
Drilling Measured from _____		DF <u>3958</u>
		GL <u>3944</u>

Date	<u>6-18-61</u>	
Run No.	<u>ONE</u>	
Depth—Driller	<u>9070</u>	
Depth—Logger	<u>9070</u>	
Bottom Logged Interval	<u>4000'</u>	
Top Logged Interval	<u>1000'</u>	
Casing <u>5 1/2</u>	from <u>-0-</u>	to <u>TD</u>
	from _____	to _____
	from _____	to _____
Bit Size <u>7 7/8</u>	from _____	to _____
	from _____	to _____
Time Survey Started	<u>6:40 PM</u>	
Time Survey Finished	<u>8:00 PM</u>	
Date of Cementing	<u>6-18-61</u>	Time <u>1:30 PM</u>
Amount of Cement	(Sacks)	Type
Amount of Admix		Type
Nature of Fluid	<u>WATER</u>	
Fluid Level	<u>Full</u>	
Approx. Top of Cement	<u>3200'</u>	
Bottom Hole Temp.	—	
Max. Rec. Temp. Deg. F.	<u>100</u> F.	
Equip. No. and Location	<u>PV-106 HOABS</u>	
Recorded By	<u>T. Eiland - T. Woods</u>	
Witnessed By	<u>B. RIGSBY</u>	

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-31

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REMARKS



Welex

COMPANY Phillips
Petroleum Company
 WELL Vacuum ABO Unit
Tract 14 Well # 3
 FIELD Vacuum ABO Reef
 County Lea State N.M.

Run No.	- One -	- Two -
Date & Time Survey	6/14/79	6/15/79
Date & Time Cementing		
Type Cementing Operation		
Depth Driller	7996	7996
Depth Welx	7984	4258
Logged Interval	4990 to 7976	3150 to 4250
Casing Driller	4-1/2" @ 9107	4-1/2" @ 9107
Float Collar—D.V. Tool		
Squeeze Depth		
Amount & Type Cement		
Amount & Type Admix		
Type Fluid in Hole	Fresh Water	Water
Fluid Level		Full
Salinity PPM Cl		
Weight lb/gal—Vis.		
Approx. Logged Cem. Top		
Calculated Cement Top	5600	5600
Max. Hole Temperature	130 °F.	130 °F.
Tool No.	21156	13264
Spacing Recorded	4'	4'
Equipment—Location	9937 Hobbs	0411 Hobbs
Recorded by	Campbell	Chambliss & Miller
Witnessed by	Mr. Allen	Mr. Allen

Fold Here

CASING RECORD

[illegible]

BORE HOLE RECORD

Bit Size	From	To

Remarks	Service Ticket No.
042151	

VACUUM ABO unit 13-16

397-C



*Well
Feb*

COMPANY

STANDARD OIL COMPANY OF TEXAS

WELL

VAC EDGE UNIT NO. 16 *vac abo 13-16*

FIELD

VACUUM ABO

LOCATION

990' ENL 330' FEL SEC. 5 188 35E

COUNTY

LEA

STATE

NEW MEXICO

Casing Collars Located At:

Perforated Zones

DISTRIBUTION MADE:

8-23-61/Kew

HOUSTON

2

MIDLAND

1

MONAHANS

1

Hobbs

1

Location

No. Of
Shots

FROM:

TO:

FROM:

TO:

FROM:

TO:

FROM:

TO:

FROM:

TO:

FROM:

TO:

GUN

BOTTOM

Log Meas. From *ADH 13' ABOVE GROUND LEVEL*

Orig. Meas. From *XDB*

Perm. Datum *GROUND LEVEL*

Casing Size: *5 1/2* Weight: *15* Type:

Type of Fluid in Hole: *WATER* Fluid Level: *FULL*

Trk. No. *1-1* Trk. Oper. *DIXON* Ticket No.

Type of Down Hole Tool Used: *3 5/8 SOINT.*

Date *8-2-61* Witnessed By Mr. *PULLIN*

REMARKS OR OTHER DATA

TEMPERATURE SURVEY

TOP OF CEMENT AT 2790'

VACUUM ABO Unit 13-18

FORM 578



TEMPERATURE LOG

File

FILE NO.

COMPANY STANDARD OIL CO. OF TEXAS

WELL ~~VAC EDOE UNIT NO. 18~~ *VAC ABO 13-18*

FIELD VACUUM ABO

COUNTY LEA STATE NEW MEXICO

LOCATION: 1980' FWL & 2310' FSL

Other Services

PFC

SEC 4 TWP 18-S RGE 35-E

Permanent Datum GROUND LEVEL Elev. 3942

Elevations:

KB 3957

Log Measured from K. B. 15 Ft. Above Permanent Datum

DF

Drilling Measured from

GL 3942

Date	9-7-61
Run No.	ONE-NW
Type Log	TEMPERATURE
Depth-Driller	9100
Depth-Logger	9069
Bottom Logged Interval	3920
Top Logged Interval	3000
Type Fluid in Hole	WATER
Salinity Ppm Cl.	
Density Lb./Gal.	
Level	
Max. Rec. Temp. Deg. F	115
Opr. Rig Time	
Recorded By	DAVIS
Witnessed By	SESSIONS

Run	Bore Hole Record			Casing Record			
No.	Bit	From	To	Size	Wgt.	From	To
1				5 1/2		SURF	9100

FOOT DEEP

3000

120°

160°