

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



January 8, 1987

Handwritten: 6/103GARREY CARRUTHERS
GOVERNORPOST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800Texaco USA
P. O. Box 730
Hobbs, New Mexico 88240

Attn: W. B. Cade

Re: Injection Pressure Increase
Skelly Unit Well Nos, 10, 40
and 58 Eddy County, New
Mexico

Dear Sir:

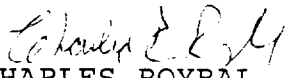
Reference is made to your request of December 8, 1986 to increase the surface injection pressure on your Skelly Unit Well Nos 10, 40 and 58. This request is based on step rate tests conducted on the wells on November 25, 1986. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase your surface injection pressure on the following well(s):

<u>Well & Location</u>	<u>Maximum Injection Surface Pressure</u>
Skelly Unit No. 10 1980 FNL & 660 FEL (Unit H) Sec. 21, T-17S, R-31E	1495 PSIG
Skelly Unit No. 40 660 FNL & 660 FWL (Unit D) Sec. 23, T-17S, R-31E	1440 PSIG
Skelly Unit No. 58 510 FSL & 660 FEL (Unit P) Sec. 22, T-17S, R-31E	1585 PSIG

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or it is endangering any fresh water aquifers.

Sincerely,


CHARLES ROYBAL,
Acting Director

DRC/et

cc: Oil Conservation Division - Artesia
D. McDonald
D. Catanach
Case File 6103



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

October 20, 1986

Texaco USA
P.O. Box 728
Hobbs, New Mexico 88240

Attention: W. B. Cade

Re: Injection Pressure Increase
Skelly Unit Waterflood
Eddy County, New Mexico

Dear Sir:

Reference is made to your request of September 17, 1986, to increase the surface injection pressure on four wells in your Skelly Unit Waterflood Project. This request is based on step rate tests conducted on these wells at various times in 1981, 1984, and 1985. It is our opinion that due to the length of time that has elapsed since these tests were run, that the fracture pressure data contained on the tests may not be accurate due to a number of factors.

We therefore request that new tests be conducted on these wells in order to obtain new data that would better reflect the current condition of the formation. We further request that advance notification be given to the Artesia district office of the Division of the date and time that the tests will be run in order that they may be witnessed.

If you have any questions in regards to the requests we have outlined, please feel free to call me at (505) 827-5800.

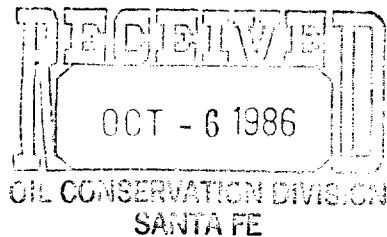
Sincerely,

David R. Catanach
UIC Director



Texaco USA

P.O. Box 175
Hobbs NM 88401
505 383 1131



September 17, 1986

Mr. R. L. Stamets, Director
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

RE: Skelly Unit
Sections 14, 15, 21, 22, 23, 26, 27, 28
T-17-S, R-31-E
Eddy County, New Mexico

Mr. Stamets:

Texaco Inc. respectfully requests permission to increase the limiting surface injection pressure on four Skelly Unit injection wells in the Fren Seven Rivers Pool. Step rate tests on the subject wells indicate that the surface injection pressure could be increased above the present limiting pressure of 1300 psi without fracturing the reservoir. Step rate tests on the subject wells are summarized on Attachment "A". Copies of the step rate tests are also attached.

Approval to waterflood the Fren Seven Rivers on the Skelly Unit was granted by NMOCC Order No. R-4717-A. NMOCC Order Number R-4717-A states that "... the Secretary-Director of the Commission may administratively authorize a pressure limitation in excess of that set out in Order No. (5) above upon a showing by the operator that such higher pressure will not result in fracturing of the confining strata...". Order No. (5) limits the surface injection pressure to 1300 psi.

Texaco Inc. requests that the limiting surface injection pressure on the four subject wells be increased to the requested levels on Attachment "A".

Your consideration in this matter is appreciated.

Sincerely,

A handwritten signature in dark ink, appearing to read 'W. B. Cade', with a stylized, flowing script.

W. B. Cade
District Operations Manager

KGC:CLP

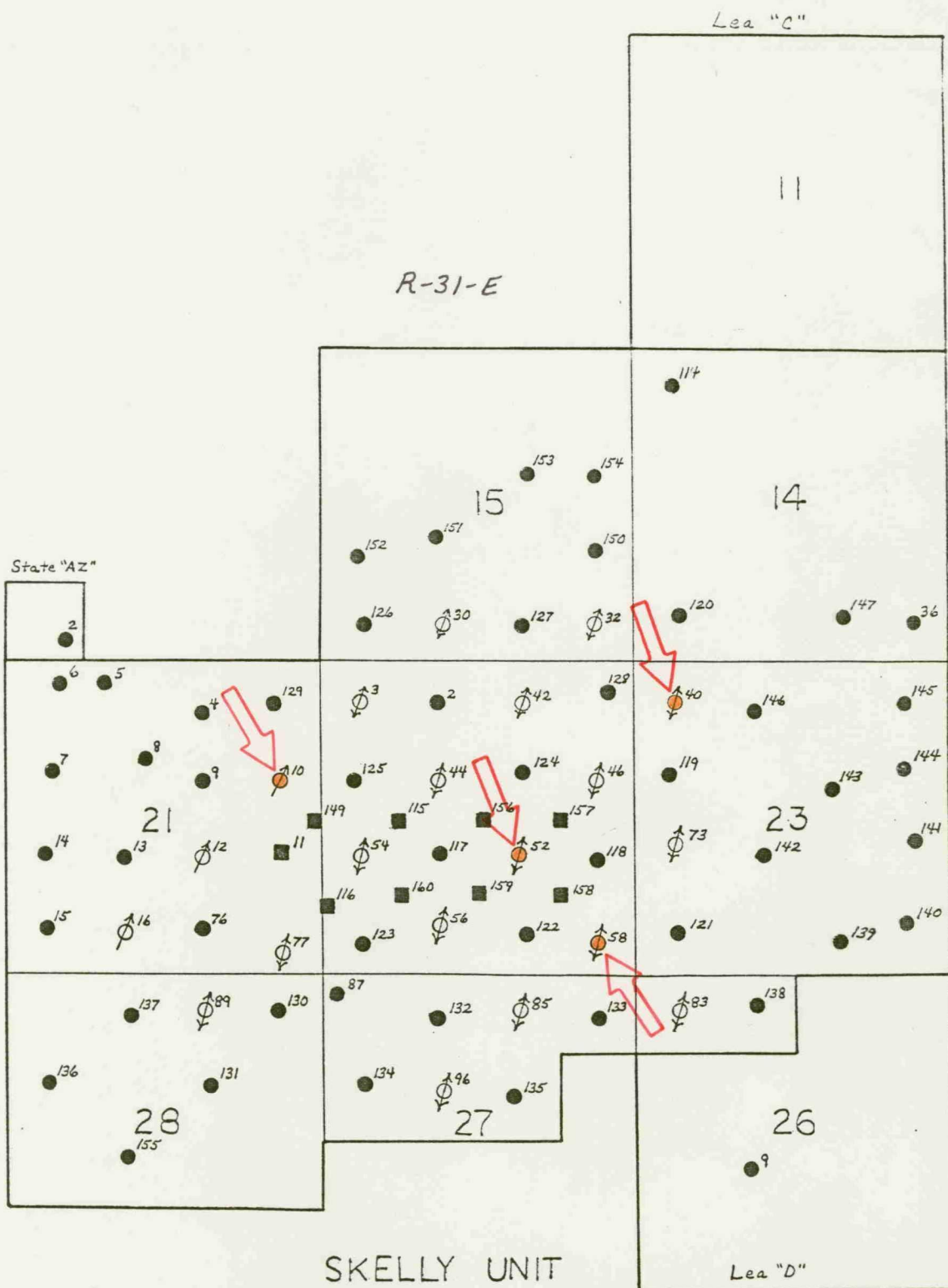
cc: NMOCD (Attn: Mr. Les Clemmons)
P. O. Drawer DD
Artesia, New Mexico 88210

LJS-Hobbs District
JAH-Hobbs Area
File

Attachment "A"

WELL	DATE OF STEP RATE TEST	PARTING PRESSURE psi	REQUESTED LIMITING SURFACE INJECTION PRESSURE, psi	TOP PERF	WELL LOCATION
Skelly Unit No. 10	12/84	1505	1455	2,156'	H, Sec 21
Skelly Unit No. 40	5/81	1550	1500	2,324'	D, Sec 23
Skelly Unit No. 52	6/81 6/85	1550 1560	1510	2,284'	J, Sec 22
Skelly Unit No. 58	6/81	1575	1525	2,349	P, Sec 22

T-17-S

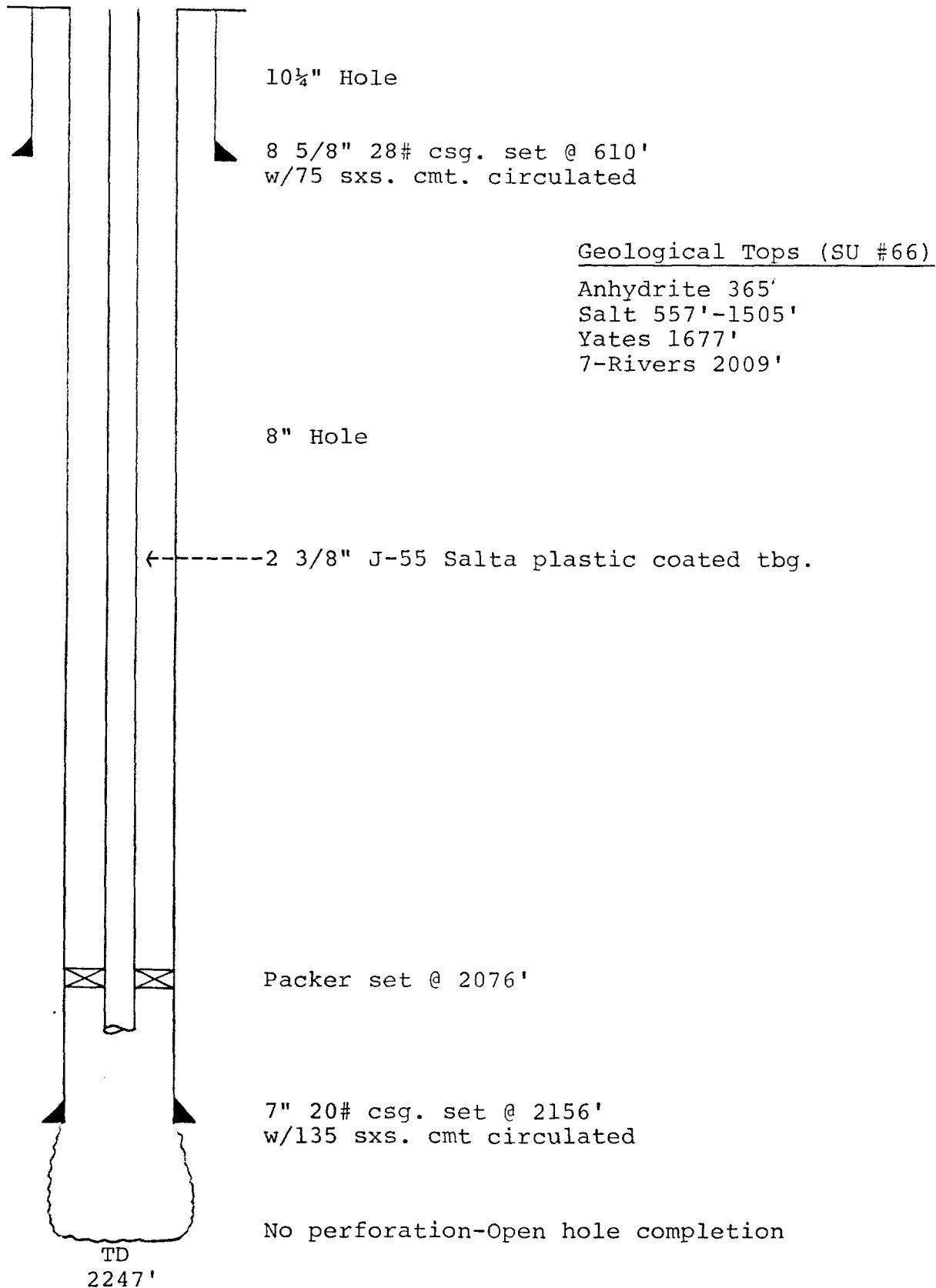


- Seven Rivers Producer
- Seven Rivers Injector
- Dual Seven Rivers, Grayburg-Jackson Injector
- Downhole Commingled Producer
- Proposed Downhole Commingled Infill Producer

WELL: Skelly Unit No. 10
POOL: Fren 7-Rivers
COMPLETED: October 1, 1947

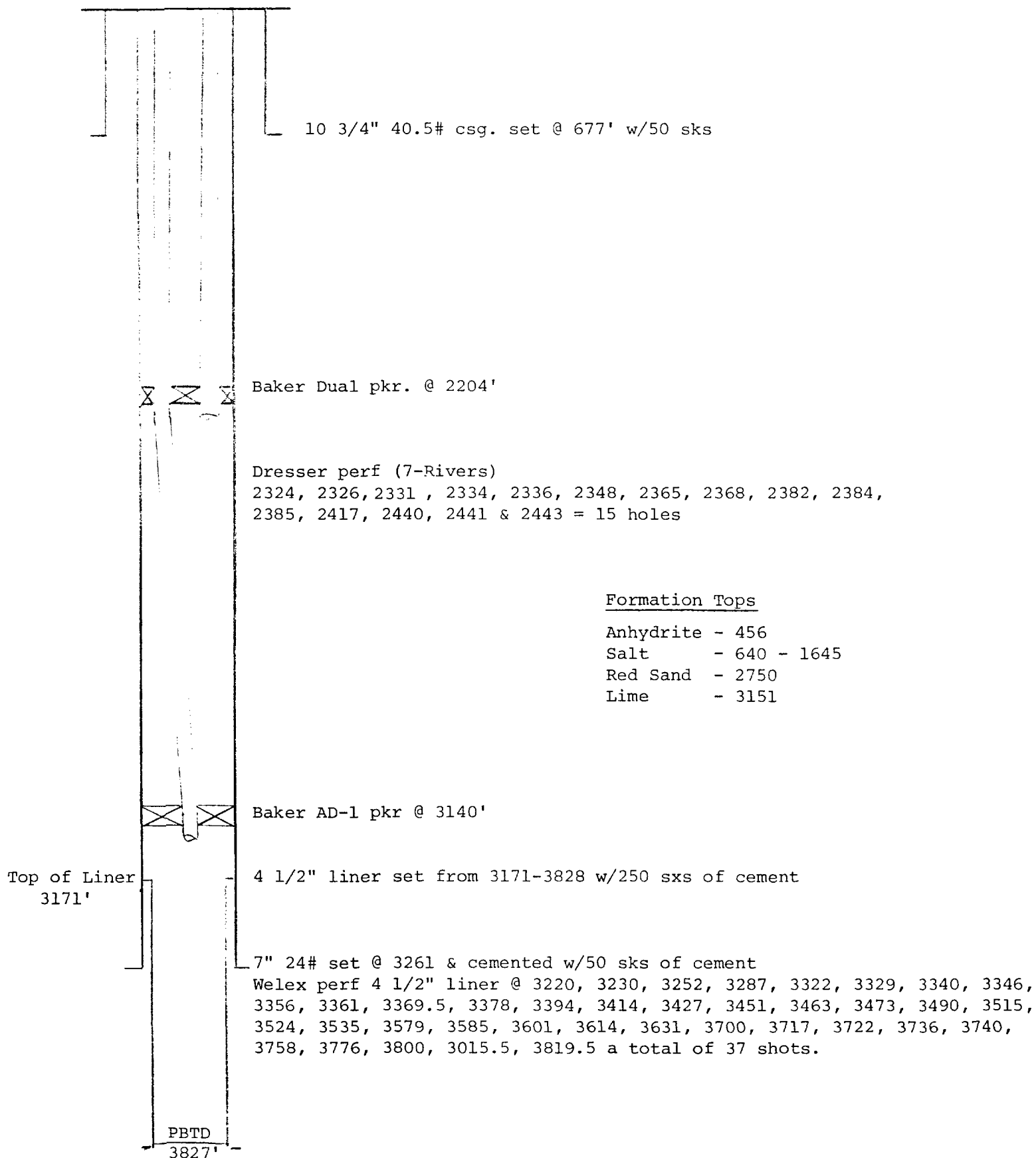
LOCATION: Unit Letter "H"
1980' FNL & 660' FEL
Sec. 21, T-17-S, R-31-E
Eddy County, New Mexico

ELEVATION: 3826' DF



Lease: Skelly Unit
Pool: Grayburg-Jackson, Fren 7-Rivers
Well: 40
Completed: September 19, 1934

Location: Unit Ltr. D, 660' FNL & 660'
FWL of Sec. 23, T-17S, R-31E
Eddy County, New Mexico
Elevation: 3863' DF

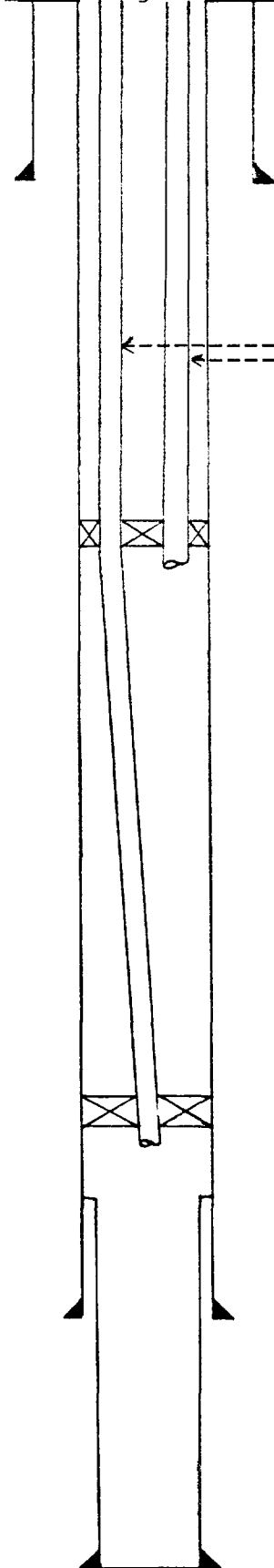


WELL: Skelly Unit No. 52
POOL: Fren 7-Rivers, Grayburg-Jackson
COMPLETED: March 1, 1946

LOCATION: Unit Letter "J"
1980' FSL & 1980' FEL
Sec. 22, T-17-S, R-31-E
Eddy County, New Mexico

ELEVATION: 3839' DF

Dual Injection Well



11" Hole

8 5/8" 28# csg. set @ 655' w/100 sxs.
Calculated top of cmt. @ 136'

←-----2 3/8" IPC tbg.

Baker Dual Tension pkr.
set @ 2198'

Fren 7-Rivers perf.
2284'-2611'
Total 34 intervals, 1 SPF

9" Hole

Baker AD-1 pkr. set @ 2933'

7" 20# csg. set @ 3130' w/150 sxs.
Calculated Top of Cmt. @ 1996'

Grayburg-Jackson perfs.
3201'-3842'
Total 40 intervals, 1 SPF

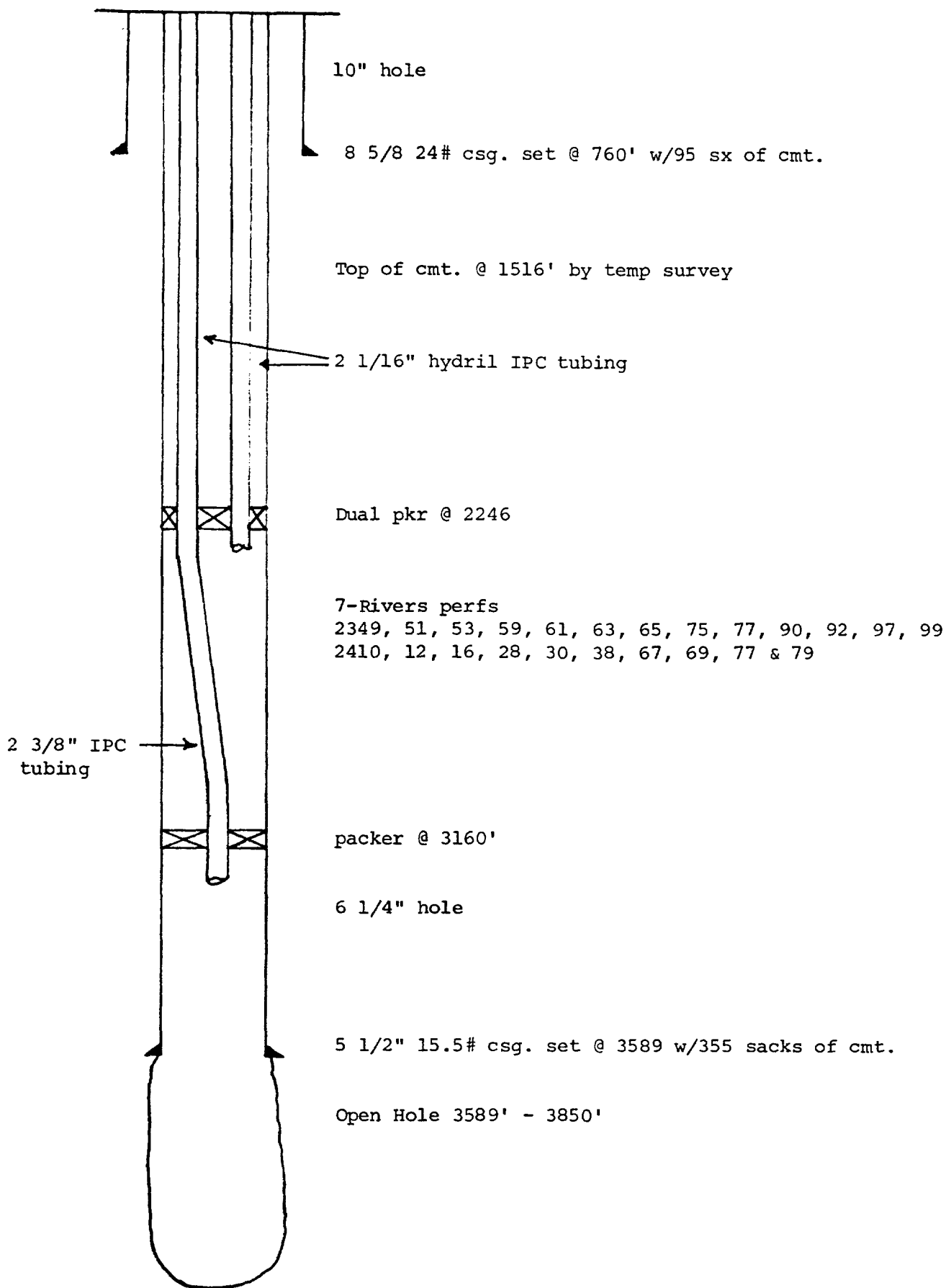
4 1/2" 105# J-55 liner set from 3006'-3870'
cmt. w/200 sxs., circ.

Geological Tops

Anhydrite 435'
Salt 612'-1590'
Yates 1713'
7-Rivers 2151'
Queen 2715'
Penrose
Grayburg 3120'
San Andres 3530'
Lovington Sand 3660'

Lease: Skelly Unit
Pool: Fren 7-Rivers
Well: #58

Location: Unit Ltr. P, 510 FSL & 660 FEL
of Sec. 22, T17S, R31E, Eddy Coun.
NM
Elevation: 2829' DF



IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 6103
Order No. R-4717-A

APPLICATION OF GETTY OIL COMPANY FOR A
WATERFLOOD PROJECT EXPANSION AND DUAL
COMPLETIONS, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on December 14, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 31st day of January, 1978, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That Commission Order No. R-4717 entered on January 25, 1974, authorized a pilot waterflood project in the Skelly Unit Area, Fren-Seven Rivers Pool, Eddy County, New Mexico.

(3) That said project was designated the Skelly Unit Fren-Seven Rivers Waterflood Project.

(4) That the applicant, Getty Oil Company, seeks the expansion of said waterflood project by the injection of water into the Seven Rivers formation through 32 additional wells in said project as set out on Exhibit A attached to this order.

(5) That 28 of said additional injection wells as identified on Exhibit A of this order are to be completed as dual completions with injection into both the Fren-Seven Rivers and Grayburg Jackson Pools, most of said wells having been authorized previously as single completion Grayburg Jackson injection wells.

(6) That injection into each of the singly completed wells should be through internally coated tubing set in a packer to be located within approximately 100 feet of the casing shoe.

(7) That injection into each of the dually completed wells should be through internally coated tubing with the long string of tubing set in a packer to be located as close as practicable to the lowermost injection interval and the short string of tubing set in a packer to be located within approximately 100 feet of the uppermost perforation.

(8) That the casing-tubing annulus in each injection well should be filled with an inert fluid, and that a pressure gauge or approved leak detection device should be attached to the annulus or the annulus should be left open in order to determine leakage in the casing, tubing, or packer.

(9) That the injection wells or system should be equipped with a pressure limiting switch or other acceptable device which will limit the surface injection pressure to no more than 1300 pounds unless the Secretary-Director of the Commission should administratively authorize a higher pressure.

(10) That there are 42 wells, as set out on Exhibit B to this order, which are located within or immediately adjacent to the boundaries of said Skelly Unit Area which may or may not be completed or plugged in such a manner that will assure that they will not serve as channels for injected water to migrate from the San Andres formation to other formations or to the surface.

(11) That to prevent migration of injected water from the Seven Rivers formation, formation injection pressure at wells within one half mile of any well identified on said Exhibit B should be limited to hydrostatic pressure until such time as the wells on said Exhibit B have been repaired or it shall otherwise be demonstrated to the satisfaction of the Secretary-Director of the Commission that the same will not serve as avenues for escape of such waters.

(12) That the wells within the project should be equipped to facilitate periodic testing of the annular space between strings of production and surface casing.

(13) That the operator should take all other steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, producing, or plugged and abandoned wells.

(14) That approval of the subject application should result in the recovery of additional volumes of oil from the Skelly Unit Area, thereby preventing waste.

(15) That the applicant should secure Commission approval for injection into the Grayburg Jackson Waterflood Project for any well herein authorized as a dual completion injection well which has not heretofore been approved as a Grayburg Jackson injection well.

(16) That the application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, Getty Oil Company, is hereby authorized to expand its Skelly Unit Fren-Seven Rivers Waterflood Project by the injection of water into the Seven Rivers formation through 4 singly completed and 28 dually completed injection wells, as set out on Exhibit A to this order, Fren-Seven Rivers Pool, Eddy County, New Mexico.

(2) That injection into each of said singly completed wells shall be through internally coated tubing installed in a packer set within approximately 100 feet of the casing shoe.

(3) That injection into each of said dually completed wells shall be through two strings of internally coated tubing with the long string to be installed in a packer set as close as practicable to the lowermost injection interval (Grayburg Jackson) and with the short string installed in a packer set within approximately 100 feet of the uppermost perforation.

(4) That the casing-tubing annulus in each injection well shall be filled with an inert fluid and a pressure gauge or approved leak detection device shall be attached to the annulus or the annulus allowed to remain open in order to determine leakage in the casing, tubing, or packer.

(5) That the injection wells or system shall be equipped with a pressure limiting switch or other acceptable device which will limit the surface injection pressure to no more than 1300 pounds.

(6) That the Secretary-Director of the Commission may administratively authorize a pressure limitation in excess of that set out in Order No. (5) above upon a showing by the operator that such higher pressure will not result in fracturing of the confining strata.

(7) That the applicant shall not inject water into the Seven Rivers formation through any well located within one half mile of any of the 42 wells identified on Exhibit B attached hereto and by reference made a part hereof, at a pressure greater than hydrostatic until such well has been repaired or it has been shown to the satisfaction of the Secretary-Director of the Commission that such well will not serve as an avenue of escape for waters injection into the Seven Rivers formation and he has authorized a higher than hydrostatic pressure.

(8) That the wells within the project area shall be equipped with risers or in another acceptable manner such as to facilitate the periodic testing of the bradenhead for pressure or fluid production.

(9) That the operator shall immediately notify the supervisor of the Commission district office at Artesia of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from or around any producing well, the leakage of water or oil from or around any plugged and abandoned well within the project area, or any other evidence of fluid migration from the injection zone, and shall take such timely steps as may be necessary or required to correct such failure or leakage.

(10) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1115 of the Commission Rules and Regulations.

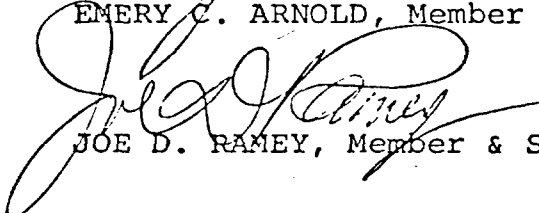
(11) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman


EMERY C. ARNOLD, Member


JOE D. RAMEY, Member & Secretary

S E A L

jr/

GETTY OIL COMPANY SKELLY UNIT
Additional Authorized Injection Wells

All in Township 17 South, Range 31 East, NMPM

SINGLE COMPLETIONS

<u>Skelly Unit Well No.</u>	<u>Unit</u>	<u>Section</u>
4	B	21
6	D	21
8	G	21
14	L	21

DUAL COMPLETIONS

<u>Skelly Unit Well No.</u>	<u>Unit</u>	<u>Section</u>
3	D	22
22	J	14
24	L	14
26	J	15
30	N	15
32	P	15
34	N	14
36	P	14
38	B	23
40	D	23
42	B	22
44	F	22
46	H	22
48	F	23
50	H	23
52	J	22
56	N	22
58	P	22
71	J	23
73	L	23
79	N	23
83	D	26
85	B	27
87	D	27
91	D	28
93	F	28
96	F	27
100	L	28

Case No. 6103
Order No. R-4717-A

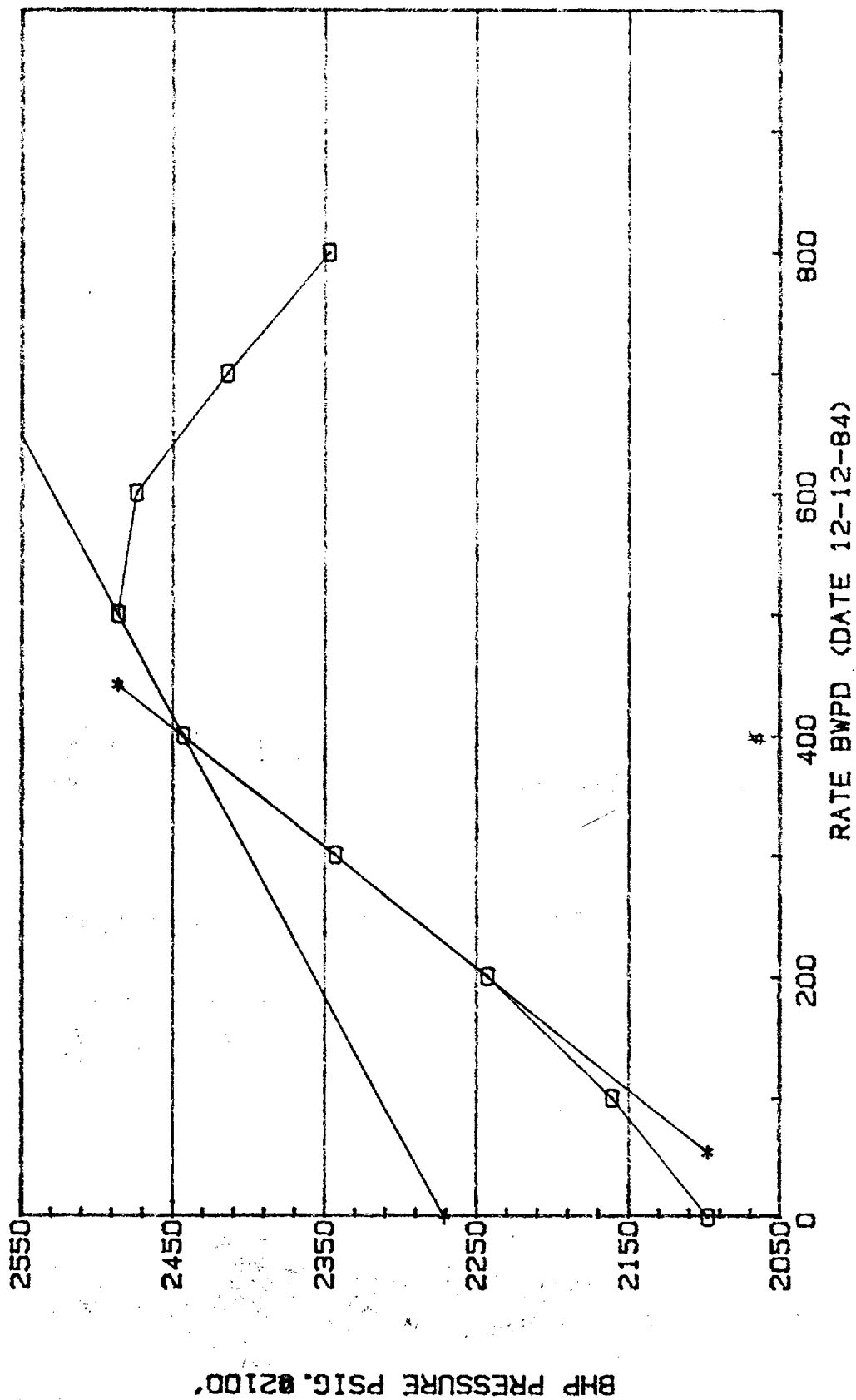
Exhibit "A"

<u>Operator</u>	<u>Lease</u>	<u>W 1</u> <u>No.</u>	<u>Ut.</u>	<u>Sec.</u>	<u>Twp.</u>	<u>Rgc.</u>
Atlantic Rich. Company	Turner "B"	1	P	17	17	31
		7	O	17	17	31
		9	A	20	17	31
		10	G	20	17	31
		11	H	20	17	31
		30	P	17	17	31
		47	B	29	17	31
		49	G	29	17	31
		51	I	20	17	31
		55	H	29	17	31
		59	A	29	17	31
		61	J	29	17	31
		62	I	29	17	31
		63	O	29	17	31
		68	P	29	17	31
		69	B	29	17	31
		78	J	20	17	31
		20	O	10	17	31
Murchison & Closuit	Foster Federal State "A" State "A" State "B"	1	I	17	17	31
		1	K	16	17	31
		2	L	16	17	31
		1	J	16	17	31
		2	O	16	17	31
		3	P	16	17	31
William A. & Edward R. Hudson	Puckett "A"	9	F	24	17	31
		10	E	24	17	31
		13	D	24	17	31
		14	M	13	17	31
		20	F	24	17	31
		27	K	24	17	31
		8	C	25	17	31
	Puckett "B"					
Getty Oil Co.	State "AZ" Skelly Unit	1	M	16	17	31
		23	K	14	17	31
		29	M	15	17	31
		31	O	15	17	31
		35	O	14	17	31
		45	G	22	17	31
		55	M	22	17	31
		72	K	23	17	31
		78	M	23	17	31
		106	C	15	17	31
		116	L	22	17	31

Case No. 6103
Order No. R-4717-A

Exhibit "B"

TYLER SURVEYS STEP RATE



O SKELLY UNIT# 10 * PART @ 2443 PSI
 \$ SURF. @ 1505 PSI + PART @ 400 BWPD

TYLER SURVEYS, INC

915/523-6826

908 CARDINAL CREST
ANDREWS, TEXAS 79714

COMPANY - TEXACO (GETTY)
WELL NUMBER 10
BHP@ DEPTH - 2100 FT

DATE - 10-12-84

STABILIZATION
RATE - 50 BWPD PRESURE - 1160 PSIG

INCREMENTS:
RATE - 100 BWPD STEP LENGTH - 20 MIN

TEST RESULTS
FORMATION PARTING POINT - 2443 PSIG @ 400 BWPD
SURFACE STATIC PART. 1505 PSIG



TIME	PRESSURE	TEMPERATURE	GAUGE
09:56:20 1500	1614.61	79.57*	1
09:57:20	1688.76	119.52*	1
09:58:36	1657.75*	77.84	1
09:59:36	1766.64*	106.95	1
10:00:36	1806.29*	102.67	1
10:01:36	1839.19*	96.77	1
10:02:36	1867.55*	91.13	1
10:03:36	1890.97*	86.61	1
10:04:36	1929.4*	87.21	1
10:05:36	1964.6*	83.5	1
10:06:36	2001.7*	83.6	1
10:07:36	2041.76*	84.47	1
10:08:36 2000	2057.9*	88.74	1
10:09:36	2059.49*	88.5	1
10:13:18	-47701.87*	88.5	1
10:14:18	2099.51*	86.38	1
10:15:18	2098.66*	85.85	1
10:16:18	2091.08*	81.53	1
10:17:18	2089.04*	80.49	1
10:18:18	2088.34*	80.26	1
10:19:18	2088.33*	80.46	1
10:20:18	2107.4*	91.71	1
10:21:18	2092.99*	79.87	1
10:22:14	2101.79	80.2*	1
10:23:14	2095.74*	80.2	1
10:24:14	2096.95*	80.2	1
10:25:14 576.7	2097.95*	80.2	1
102614	2132.6*	80.2	1
10:27:25	2131.32*	80.2	1
10:28:25	2136.02*	80.2	1
10:29:25	2129.19*	80.2	1
10:30:25	2134.43*	80.2	1
10:31:25	2136.52*	80.2	1
10:32:25	2137.84*	80.2	1
10:33:25	2139.57	76.81*	1
10:34:25	2136.36*	76.81	1
10:35:25	2136.85*	76.81	1
10:36:25	2145.76*	76.81	1
10:37:25	2149.25*	76.81	1
10:38:25	2151.67*	76.81	1
10:39:25	2152.92*	76.81	1
10:40:25	2154.52*	76.81	1
10:41:25	2156.82*	76.81	1
10:42:25	2159.11*	76.81	1
10:43:25	2161.21*	76.81	1
10:44:25	2159.1*	74.53	1
10:45:25 100	2161*	74.53	1
10:46:25	2174.71*	74.53	1
10:47:25	2179*	74.53	1
10:48:24	2186.02*	74.53	1

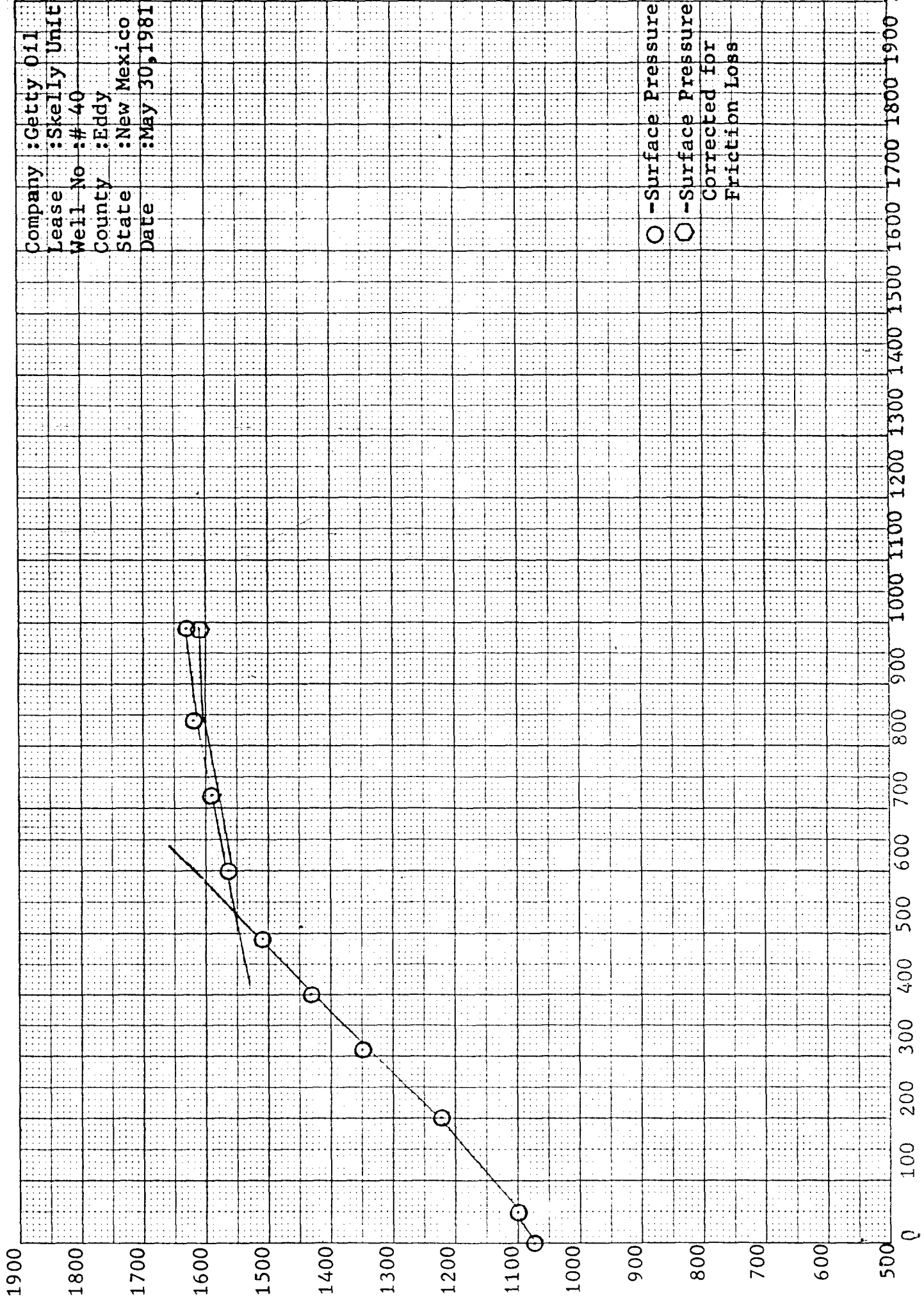
TIME	PRESSURE	TEMPERATURE	GALGE
10:49:24	2191.45*	74.53	1
10:50:24	2197.59*	74.53	1
10:51:24	2200.54*	74.53	1
10:52:24	2205.91*	74.53	1
10:53:24	2205.89*	74.53	1
10:54:24	2208.97*	74.14	1
10:55:25	2214.2*	74.14	1
10:56:24	2215.95*	74.14	1
10:57:24	2222.68*	74.14	1
10:58:24	2226.09*	74.14	1
10:59:24	2228.85*	74.14	1
11:00:24	2231.68*	74.14	1
11:01:24	2234.19*	74.14	1
11:02:24	2237.01*	74.14	1
11:03:24	2239.7*	74.14	1
11:04:24	2240.54*	73.25	1
11:05:24	2243.15*	73.25	1
11:06:24	2257.23*	73.25	1
11:07:24	2268*	73.25	1
11:08:24	2265.43*	73.25	1
11:09:24	2273.74*	73.25	1
11:10:24	2280.55*	73.25	1
11:11:24	2285.74*	73.25	1
11:12:24	2292.42*	73.25	1
11:13:24	2296.66*	73.25	1
11:14:24	2298.55*	72.12	1
11:15:24	2302.85*	72.12	1
11:16:24	2308.11*	72.12	1
11:17:24	2311.93*	72.12	1
11:18:24	2315.94*	72.12	1
11:19:24	2319.13*	72.12	1
11:20:24	2322.43*	72.12	1
11:21:24	2328.66*	72.12	1
11:22:24	2333.57*	72.12	1
11:23:24	2337.71*	72.12	1
11:24:24	2339.52*	70.69	1
11:25:24	2342.88*	70.69	1
11:26:24	2356.09*	70.69	1
11:27:24	2363.31*	70.69	1
11:28:24	2368.29*	70.69	1
11:29:24	2374.15*	70.69	1
11:30:24	2381.43*	70.69	1
11:31:24	2386.64*	70.69	1
11:32:24	2393.33*	70.69	1
11:33:24	2398.94*	70.69	1
11:34:24	2403.03	69.28*	1
11:35:24	2407.6*	69.28	1
11:36:24	2414.04*	69.28	1
11:37:24	2415.75*	69.28	1
11:38:24	2418.28*	69.28	1

TIME	PRESSURE	TEMPERATURE	GAUGE
11:39:24	2421.64*	69.28	1
11:40:24	2426.28*	69.28	1
11:41:24	2431.16*	69.28	1
11:42:24	2438.74*	69.28	1
11:43:24	2439.27*	69.28	1
11:44:24	2442.37*	69.28	1
11:45:24	2443.35*	68.33	1
11:46:24	2455.62*	68.33	1
11:47:24	2462.85*	68.33	1
11:48:24	2466.56*	68.33	1
11:49:24	2469.09*	68.33	1
11:50:24	2471.07*	68.33	1
11:51:24	2474.89*	68.33	1
11:52:24	2475.77*	68.33	1
11:53:24	2476.51*	68.33	1
11:54:24	2479.08*	68.33	1
11:55:24	2480.58*	67.34	1
11:56:24	2481.82*	67.34	1
11:57:24	2482.4*	67.34	1
11:58:24	2482.62*	67.34	1
11:59:24	2484.04*	67.34	1
12:00:24	2483.32*	67.34	1
12:01:24	2483.71*	67.34	1
12:02:24	2485.91*	67.34	1
12:03:24	2487.09*	67.34	1
12:04:24	2489.08*	67.34	1
12:05:24	2485.84*	66.06	1
12:06:24	2492.86*	66.06	1
12:07:24	2493.96*	66.06	1
12:08:24	2503.39*	66.06	1
12:09:24	2492.37*	66.06	1
12:10:24	2489.64*	66.06	1
12:11:24	2487.78*	66.06	1
12:12:24	2486.32*	66.06	1
12:13:24	2485.66*	66.06	1
12:14:24	2483.77*	66.06	1
12:15:24	2482.21*	65.22	1
12:16:24	2480.92*	65.22	1
12:17:24	2479.7*	65.22	1
12:18:24	2480.01*	65.22	1
12:19:24	2479.76*	65.22	1
12:20:24	2479.06*	65.22	1
12:21:24	2478.44*	65.22	1
12:22:24	2477.26*	65.22	1
12:23:24	2476.49*	65.22	1
12:24:24	2475.73*	65.22	1
12:25:24	2474.3*	64.64	1
12:26:24	2475.99*	64.64	1
12:27:24	2478.83*	64.64	1
12:28:24	2478.64*	64.64	1

TIME	PRESSURE	TEMPERATURE	GAUGE
12:29:24	2474.54*	64.64	1
12:30:24	2467.84*	64.64	1
12:31:24	2467.78*	64.64	1
12:32:24	2468.5*	64.64	1
12:33:24	2466.84*	64.64	1
12:34:24	2457.73*	64.64	1
12:35:24	2459.83	66.83*	1
12:36:24	2462.5*	66.83	1
12:37:24	2458.93*	66.83	1
12:38:24	2455.48*	66.83	1
12:39:24	2451.45*	66.83	1
12:40:24	2447.35*	66.83	1
12:41:24	2438.72*	66.83	1
12:42:24	2431.54*	66.83	1
12:43:24	2425.96*	66.83	1
12:44:24	2417.32*	66.83	1
12:45:24	2414.17*	66.83	1
12:46:24	2412.61*	64.68	1
12:47:24	2412.12*	64.68	1
12:48:24	2409.8*	64.68	1
12:49:24	2406.38*	64.68	1
12:50:24	2402.01*	64.68	1
12:51:24	2399.3*	64.68	1
12:52:24	2395.88*	64.68	1
12:53:24	2392.9*	64.68	1
12:54:24	2389.15*	64.68	1
12:55:24	2386.49*	64.68	1
12:56:24	2377.26*	63.34	1
12:57:24	2369.7*	63.34	1
12:58:24	2366.19*	63.34	1
12:59:24	2362.93*	63.34	1
13:00:24	2359.38*	63.34	1
13:01:24	2354.14*	63.34	1
13:02:24	2352.37*	63.34	1
13:03:24	2349.16*	63.34	1
13:04:24	2347.29*	63.34	1
13:05:24	2347.09*	63.34	1
13:06:24	2316.21*	63.1	1

700

800



Davis Services

P. O. BOX 2033

990 BPD
1" meter

840 BPD
1" meter

720 BPD
1" meter

630 BPD
1" meter

500 BPD
1" meter

400 BPD
1" meter

310 BPD
1" meter

200 BPD
1" meter

50 BPD
1" meter

CHART NO. LIC-104-100

PRINTED IN U.S.A.

PRINTED IN U.S.A.

CHART NO. LIC-104-100

FIELD DATA SHEET

Type Tests:	☐ Initial	☐ Annual	☒ Special	Test Date	June 4, 1981	Lease No. or Serial No.
Company	Getty Oil					Allottee
Field	Skelly Unit	Reservoir	Seven Rivers	Location	Unit	
Completion Date	Total Depth	Plug Back TD	Elevation	Form or Lease Name		
				Skelly Unit		
Log. Size	Wt.	d	Set At	Perforations: From	To	Well No.
						# 52
Log. Size	Wt.	d	Set At	Perforations: From	To	Sec. Twp - Blk Rge -
2 3/8" Plastic coated (ID 1.995)				2284	2611	
Type Completion (Describe)				Packer Set At	County or Parish	
				2198	Eddy	
Producing Thru	Reservoir Temp. F	Mean Ground Temp. F	Baro. Press. - P	State		
				New Mexico		

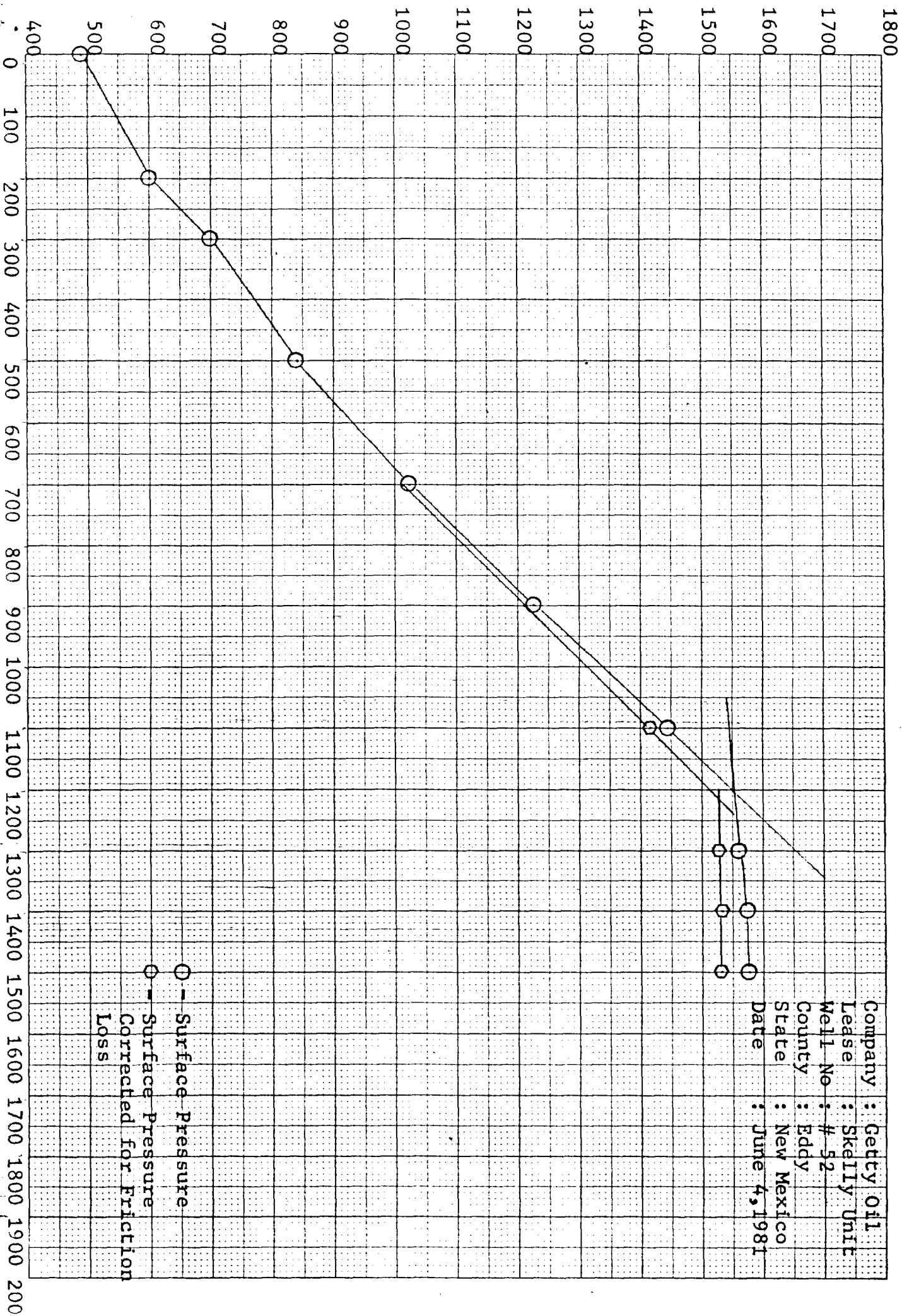
CO. REPRESENTATIVE

DATE	ELAP. TIME	well information			surf.	remarks
		Rate	Surf.		psi. cor.	
Time of Loading	Hrs.	BPD	Psig	B.H.P.	friction	(Include liquid production data: Type - API Gravity - Amount)
3:30			490			
3:45	st	200	490			1" T.M.
4:00	15	200	600			Step # 1
		300	600			
4:15	30	300	700			Step # 2
		500	700			
4:30	45	500	849			Step # 3
		700	849			
4:45	1	700	1030		10.0	Step # 4
		900	1030			
5:00	15	900	1225		17.5	Step # 5
		1100	1225			
5:15	30	1100	1445		26.3	Step # 6
		1300	1445			
5:30	45	1300	1562		33.0	Step # 7
		1400	1562		38.5	Step # 8
5:45	2	1400	1575			

REMARKS

		1500	1575			
6:00	15	1500	1576	44.0	Step # 9 - End of Test	

PARTING POINT @ 1550 PSI



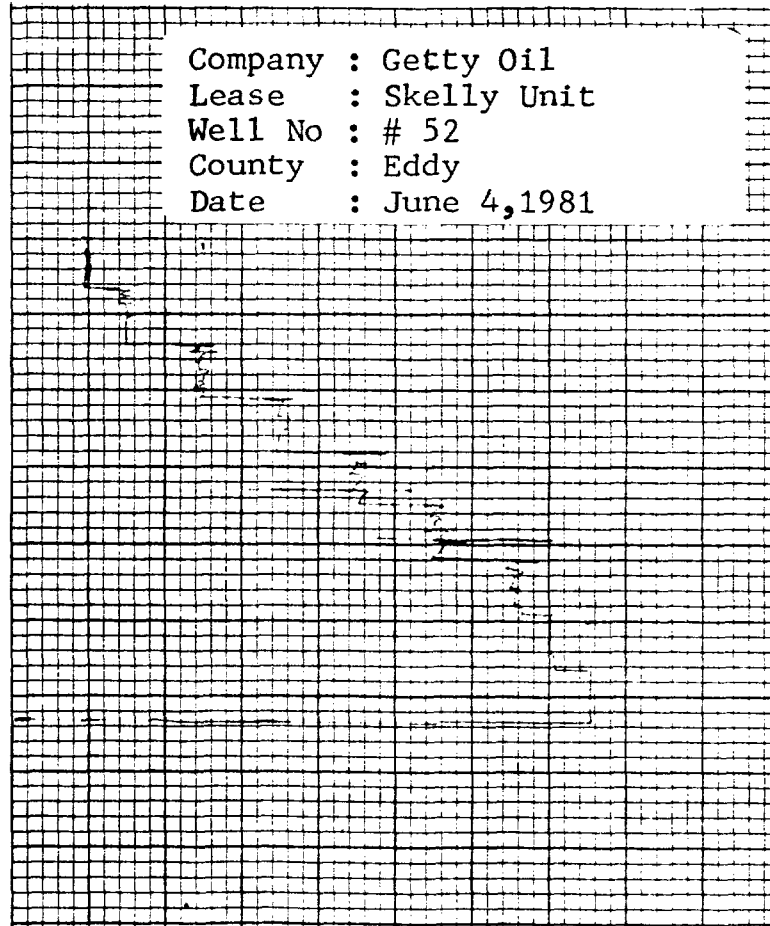
Davis Services

PHONE 505 393-0119

P. O. BOX 2033

HOBBS, NEW MEXICO 88240

GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK

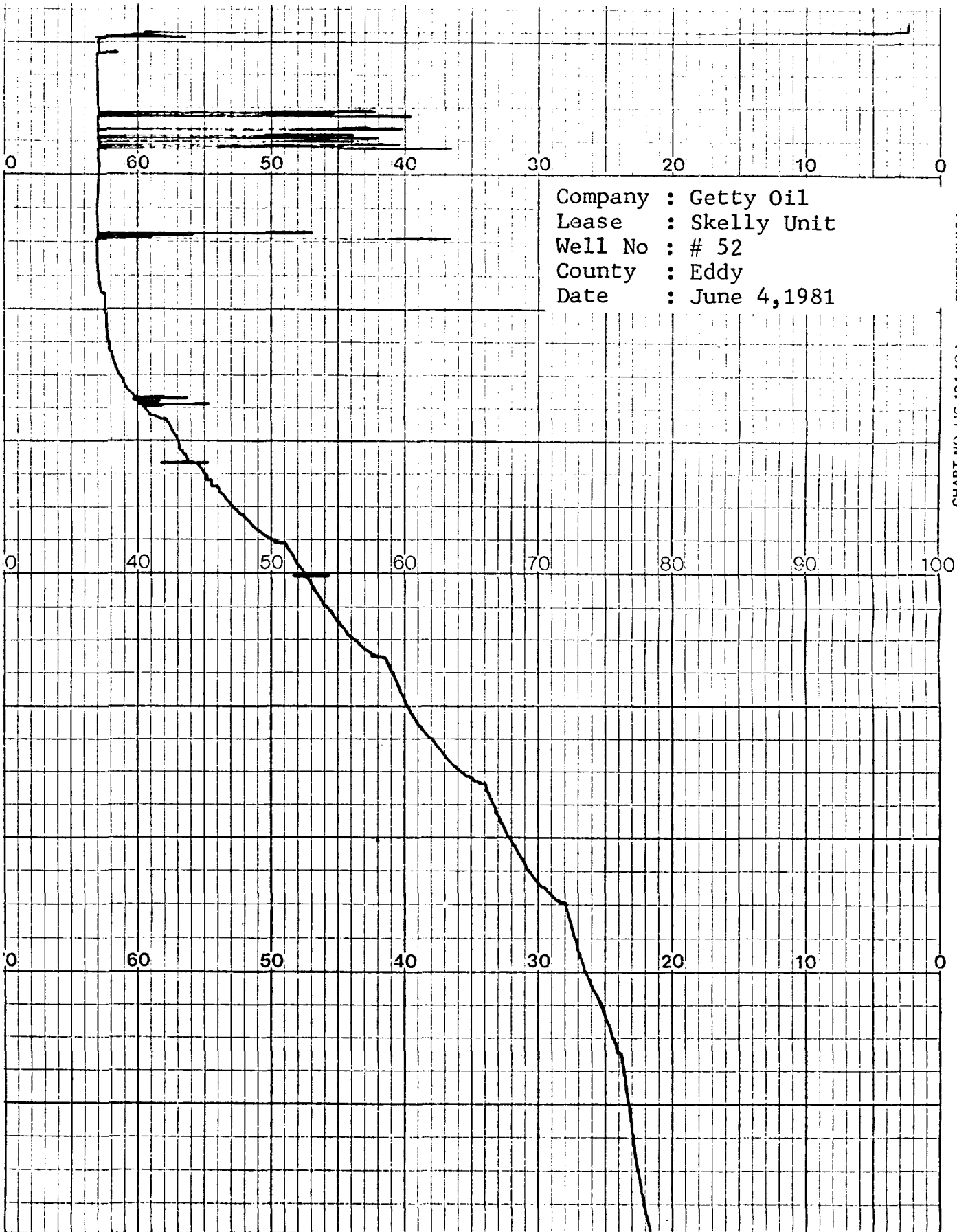


Davis Services

PHONE 505 393-0119

P. O. BOX 2033

HOBBS, NEW MEXICO 88240



B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

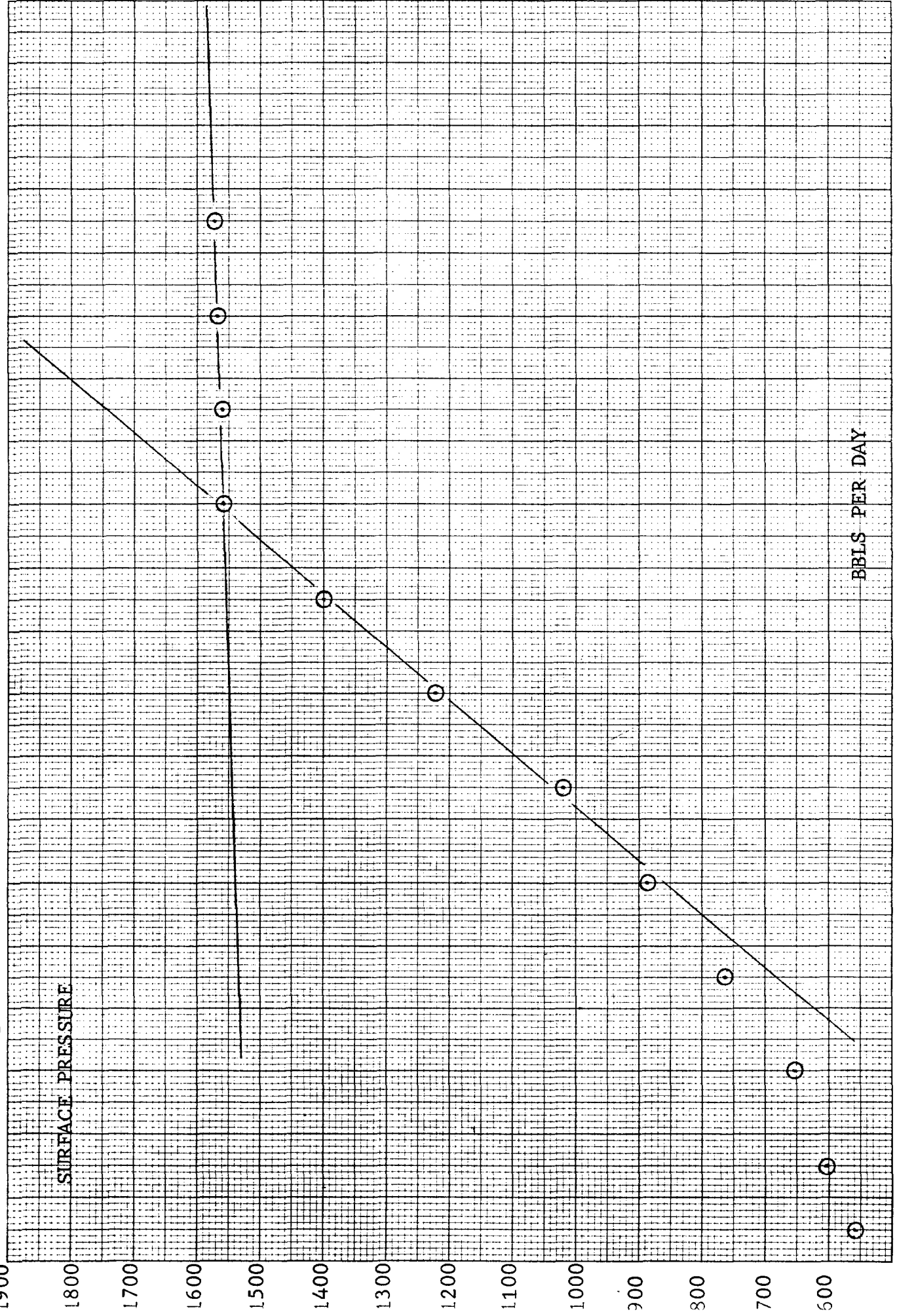
Company Texaco Producing Inc						Test Date 6-24-85		Unit	
Total Depth 3870'		Plug Back TD		Elevation		Lease Skelly Unit			
Csg size 7		Wt 20#		Set at		Perfs: From		To	
Tbg size 2 3/8		Wt pc		Set at		Perfs: From		To	
Producing thru						Packer set at		Co. Rep Glen Carter	
Time of Reading	Elap Time Hrs.	Well Information					Remarks		
		Rate BBLs Per Day	Total BBLs Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP			
10:45		Shut In		530			2447' Midway of perfs		
10:50		start	50	530			1" TM turbine meter		
10:55		50		546					
11:00		50		555					
11:05	15	50	.52	562					
11:10		150		583					
11:15		150		595					
11:20	30	150	1.5	605					
11:25		300		631					
11:30		300		644					
11:35	45	300	3.1	655					
11:40		450		730					
11:45		450		745					
11:50	1hr	450	4.6	765					
11:55		600		833					
12:00		600		864					
12:05	15	600	6.2	887					
12:10		750		964					
12:15		750		1002					
12:20	30	750	7.8	1022					
12:25		900		1145			Change to 1 1/2 TM turbine meter		
12:30		900		1183					
12:35	45	900	9.3	1225					
12:40		1050		1320					
12:45		1050		1358					
12:50	2hr	1050	10.9	1402					
12:55		1200		1495					
1:00		1200		1528					
1:05	15	1200	12.4	1557					

Step Rate Test

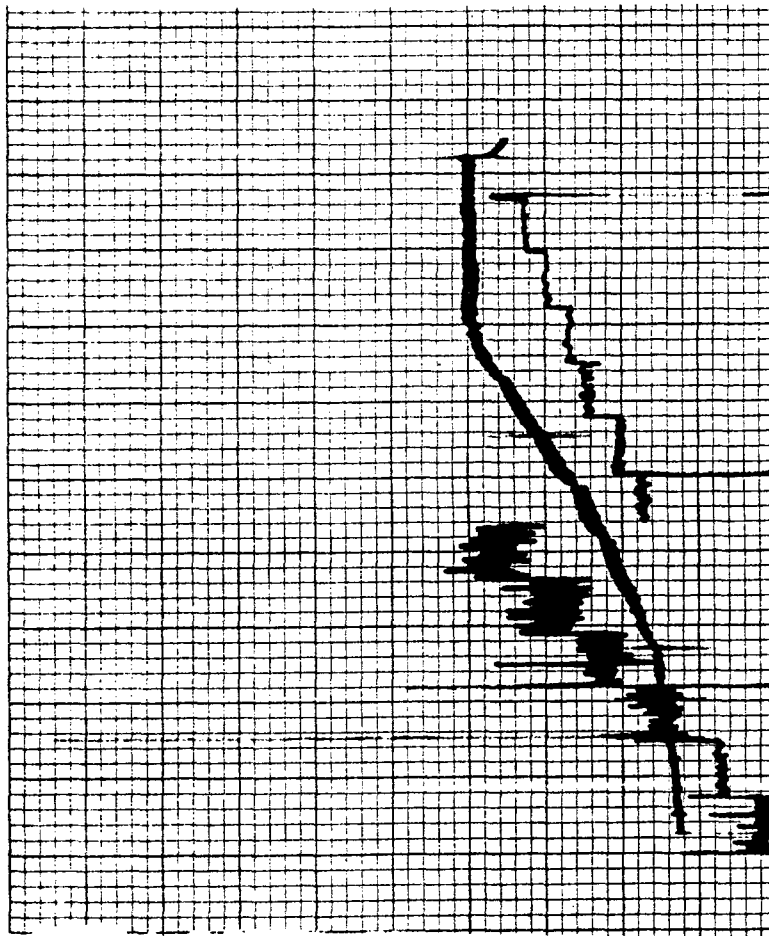
Hobbs, New Mexico 88240

							Unit						
Company		Texaco Producing Inc			Test Date		6-24-85		Lease	Skelly Unit			
Total Depth		3870'		Plug Back TD		Elevation		Well #	52				
Csg size		7		Wt 20#		d		Set at	Perfs: From	To	Sec	Twp-Blk	Rge
Tbg size		2 3/8		Wt pc		d		Set at	Perfs: From	To	County	Lea	State NM
Producing thru				Packer set at				Co. Rep Glen Carter					

[illegible]



TEXACO PRODUCING, INC.
SKELLY UNIT #52
6-24-85



HOBBS,

STEP RATE TEST

NEW MEXICO

FIELD DATA SHEET

Type Tests					Test Date		Lease No. or Serial No.	
☐ Initial		☐ Annual		☒ Special		may 30, 1981		
Company						Allottee		
Getty Oil Co.						1		
Field		Reservoir		Location		Unit		
		Seven Rivers				P		
Completion Date		Total Depth		Plug Back TD		Form or Lease Name		
						Skelly Unit		
Log Size		Wt.		d		Set At		Perforations: From To
5 1/2								2349 2379
Log Size		Wt.		d		Set At		Perforations: From To
2 1/16						2246		Well No. # 58
Type Completion (Describe)						Packer Set At		Sec. Twp - Blk Rge -
						2246		22 17s 31e
Producing Thru						Baro. Press. - P		County or Parish
Reservoir Temp. F						Mean Ground Temp. F		Eddy
								State
								New Mexico

20. REPRESENTATIVE

[illegible]

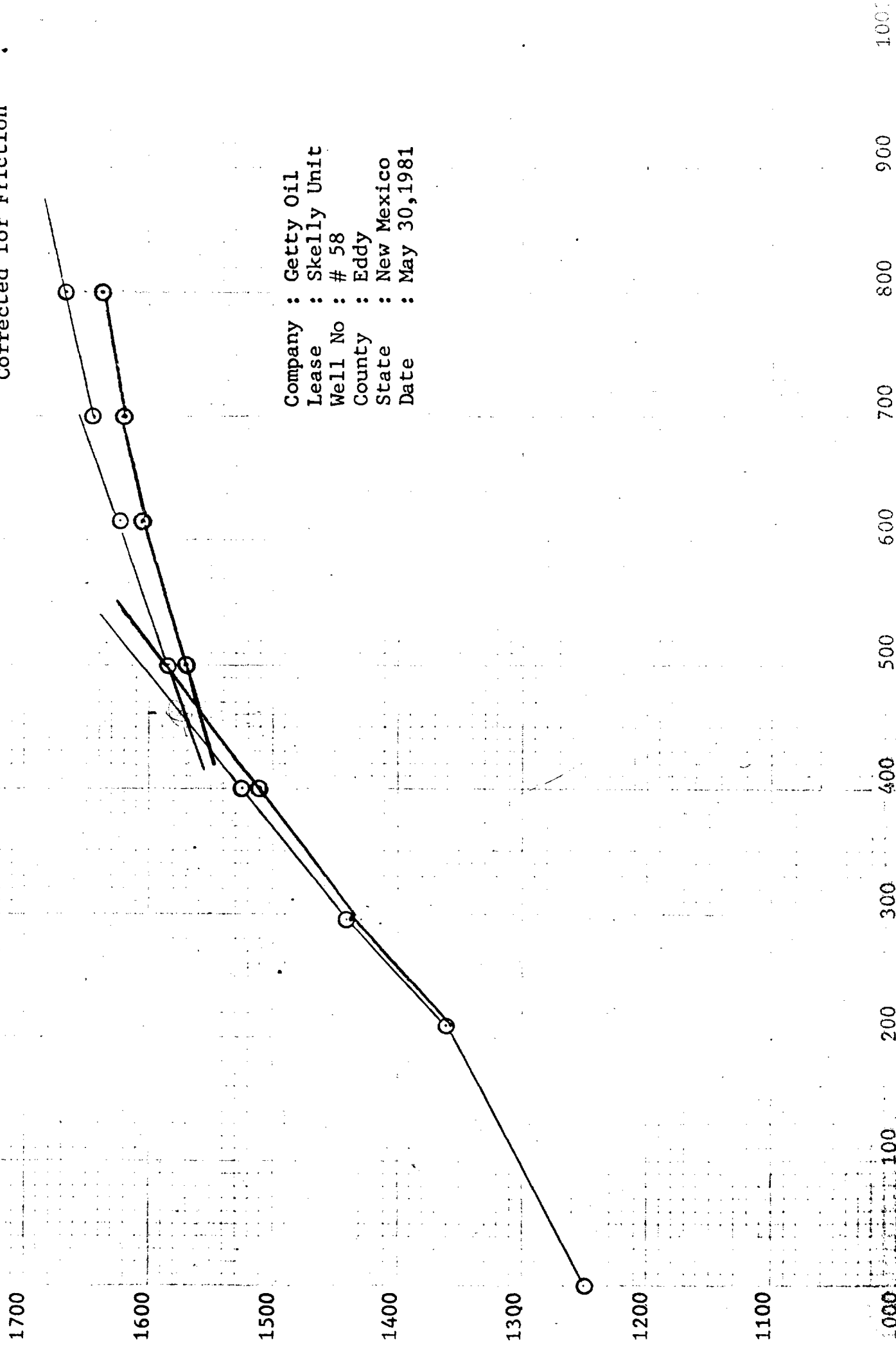
REMARKS

- ### 1. Using Getty's Injection System.

- ## 2. Parting Point @ 1575 PSI

O-Surface Pressure
 O-Surface Pressure
 Corrected for Friction

Company : Getty Oil
 Lease : Skelly Unit
 Well No : # 58
 County : Eddy
 State : New Mexico
 Date : May 30, 1981

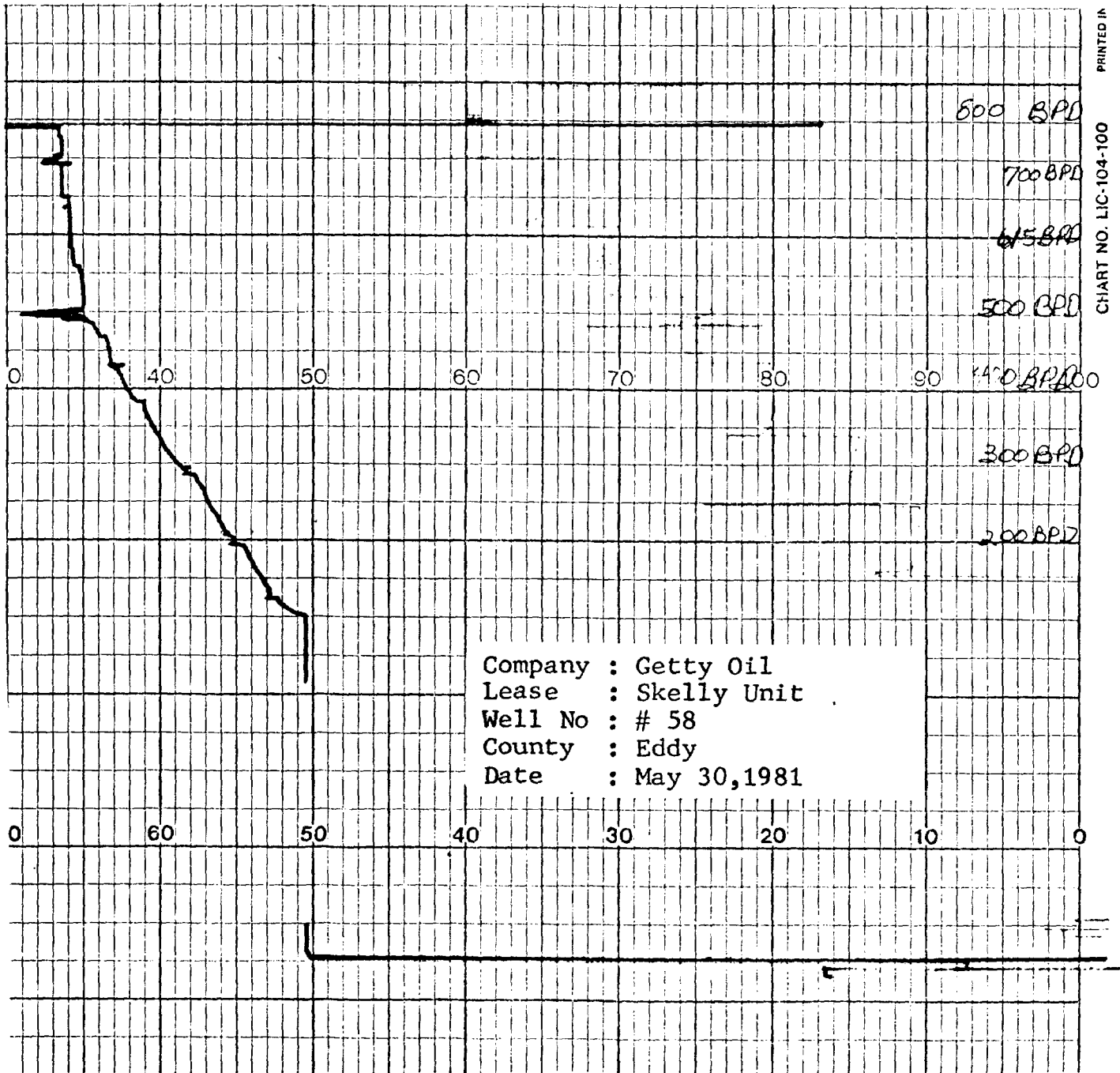


Davis Services

PHONE 505 393-0119

P. O. BOX 2033

HOBBS, NEW MEXICO 88240



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISIONGARREY CARRUTHERS
GOVERNOR

May 22, 1987

POST OFFICE BOX 2089
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800Texaco, Inc.
P.O. Box 728
Hobbs, NM 88240

Attention: J.A. Head

RE: Injection Pressure Increase
Skelly Unit
Eddy County, New Mexico

Dear Sir:

Reference is made to your request dated March 25, 1987, to increase the surface injection pressure on eight wells in the Skelly Unit Waterflood Project. This request is based on step rate tests conducted on these wells during February and March, 1987. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells.

<u>WELL & LOCATION</u>	<u>MAXIMUM INJECTION SURFACE PRESSURE</u>
Skelly Unit No. 3 660 FNL & 660 FWL (Unit D) Section 22	1575 PSIG
Skelly Unit No. 30 650 FSL & 2087 FWL (Unit N) Section 15	1200 PSIG
Skelly Unit No. 32 660 FSL & 660 FEL (Unit P) Section 15	1330 PSIG
Skelly Unit No. 42 660 FNL & 1880 FEL (Unit B) Section 22	1395 PSIG

Skelly Unit No. 46
1980 FNL & 560 FEL
(Unit H) Section 22

1495 PSIG

Skelly Unit No. 73
2130 FSL & 660 FWL
(Unit L) Section 23

1590 PSIG

Skelly Unit No. 89
660 FNL 7 1980 FEL
(Unit B) Section 28

1380 PSIG

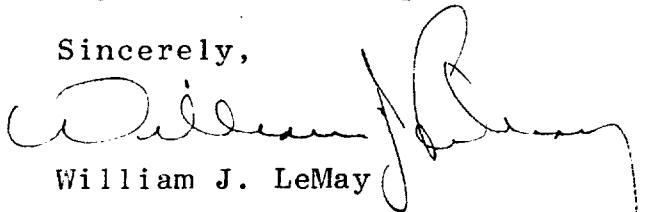
Skelly Unit No. 96
1980 FNL & 1980 FWL
(Unit F) Section 27

1315 PSIG

All in Township 17 South, Range 31 East, NMPM, Eddy
County, New Mexico.

The Division Director may rescind this injection pressure
increase if it becomes apparent that the injected water is
not being confined to the injection zone or is endangering
any fresh water aquifers.

Sincerely,



William J. LeMay

xc: OCD - Artesia
Case File - 5138 & 6103
D. McDonald
D. Catanach



Texaco USA

P.O. Box 780
Hobbs, NM 88240
505 397 3571

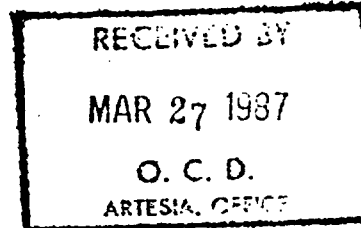
APR 28 1987

March 25, 1987

New Mexico Oil Conservation Division
Mr. Mike Williams
P. O. Drawer DD
Artesia, New Mexico 88210

Re: Skelly Unit

Mr. Williams:



Eight step rate tests were recently run on the Skelly Unit. The 7-Rivers zone was tested in Wells No. 3, 30, 32, 42, 46, 73, 89, and 96. Prior to conducting the tests, the wells were shut-in for at least one week to allow the pressure to decline. Copies of the step rate tests are attached.

Skelly Unit No. 52, 56, and 83 are dual injection wells which are presently shut-in. We are presently evaluating alternate means of dual injection and/or possible abandonment of one zone in these three wells.

Skelly Unit No. 114 is a dually completed well which produces from the 7-Rivers and injects into the Grayburg-Jackson. A tubing leak in the Grayburg-Jackson string is anticipated, and both strings are currently shut-in. The well is presently being reviewed for repair.

If you have any questions, please contact Glenn Carter at 397-3572.

Sincerely,

J. A. Head

Hobbs Area Superintendent

KGC/clp

Attachments

cc: File

B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company Texaco Inc.

Test Date 3-13-87

Unit

Lease Skelly Unit

Total Depth 3772

Plug Back TD 3772

Elevation

Well # 3

Csg size 7"

Wt

d

Set at

Perfs: From 2224 To 2342

Sec

Twp-Blk

Rge

Tbg size 2 3/8

Wt

d

Set at

Perfs: From To

County Eddy

State

New Mexico

Producing thru

Packer set at 2113

Co. Rep Glen Carter

Time of Reading	Elap Time Hrs.	Well Information					Remarks
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	
11:55	SI			680			
12:00	Start	200		680			
12:05		200		720			
12:10		200		745			
12:15	:15	200		760			
12:20		400		810			
12:25		400		850			
12:30	:30	400		870			
12:35		600		950			
12:40		600		990			
12:45	:45	600		1010			
12:50		800		1095			
12:55		800		1120			
1:00	1:00	800		1150			
1:05		1000		1235			
1:10		1000		1290			
1:15	1:15	1000		1320			
1:20		1200		1420			
1:25		1200		1465			
1:30	1:30	1200		1480			
1:35		1400		1570			
1:40		1400		1600			
1:45	1:45	1400		1610			
1:50		1600		1660			Start Pumping
1:55		1600		1680			
2:00	2:00	1600		1690			
2:05		1800		1705			
2:10		1800		1740			
2:15	2:15	1800		1750			
See page #2							

Hobbs, New Mexico 88240

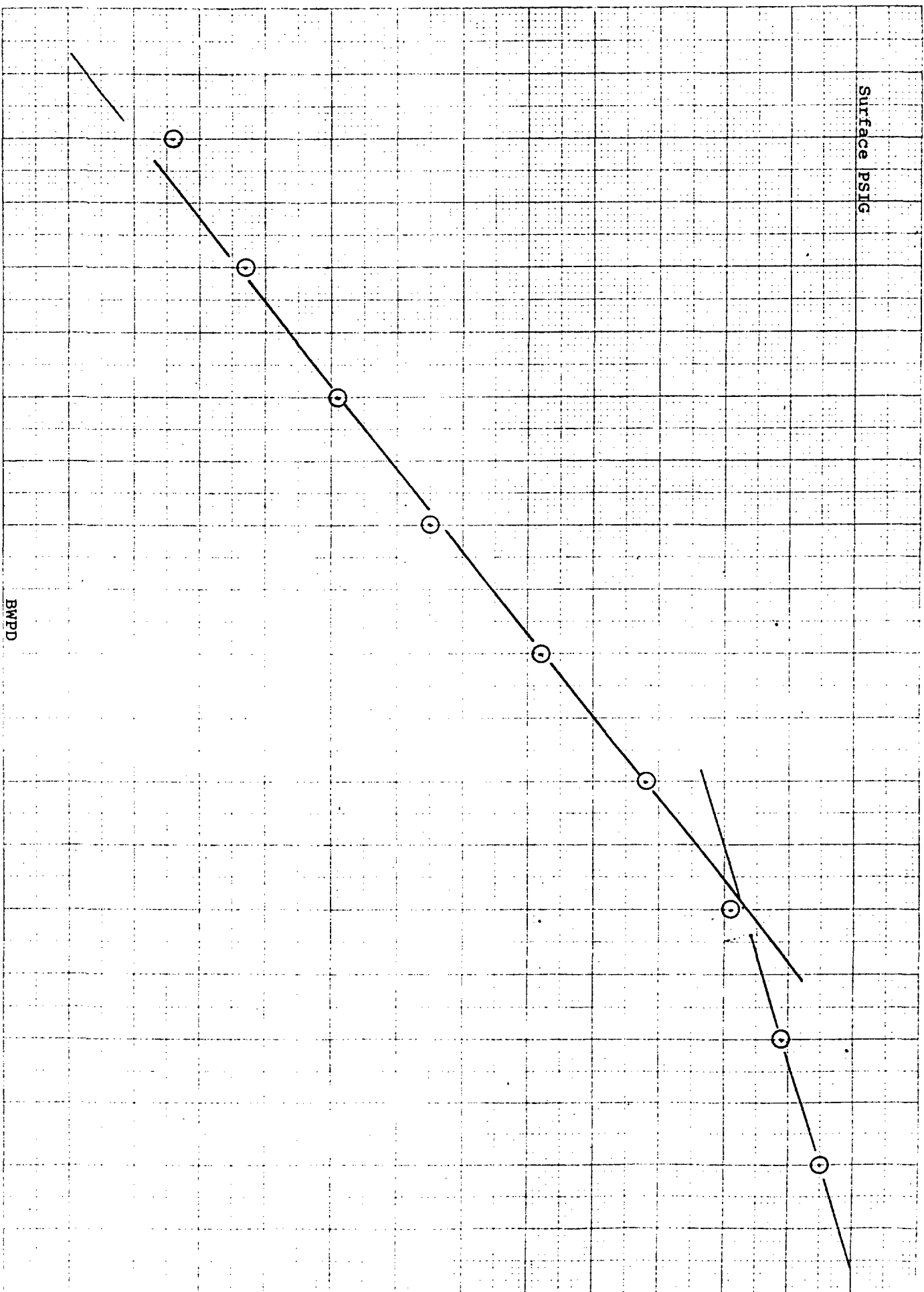
[illegible]

Surface PSIG

BWPD

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900

1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600



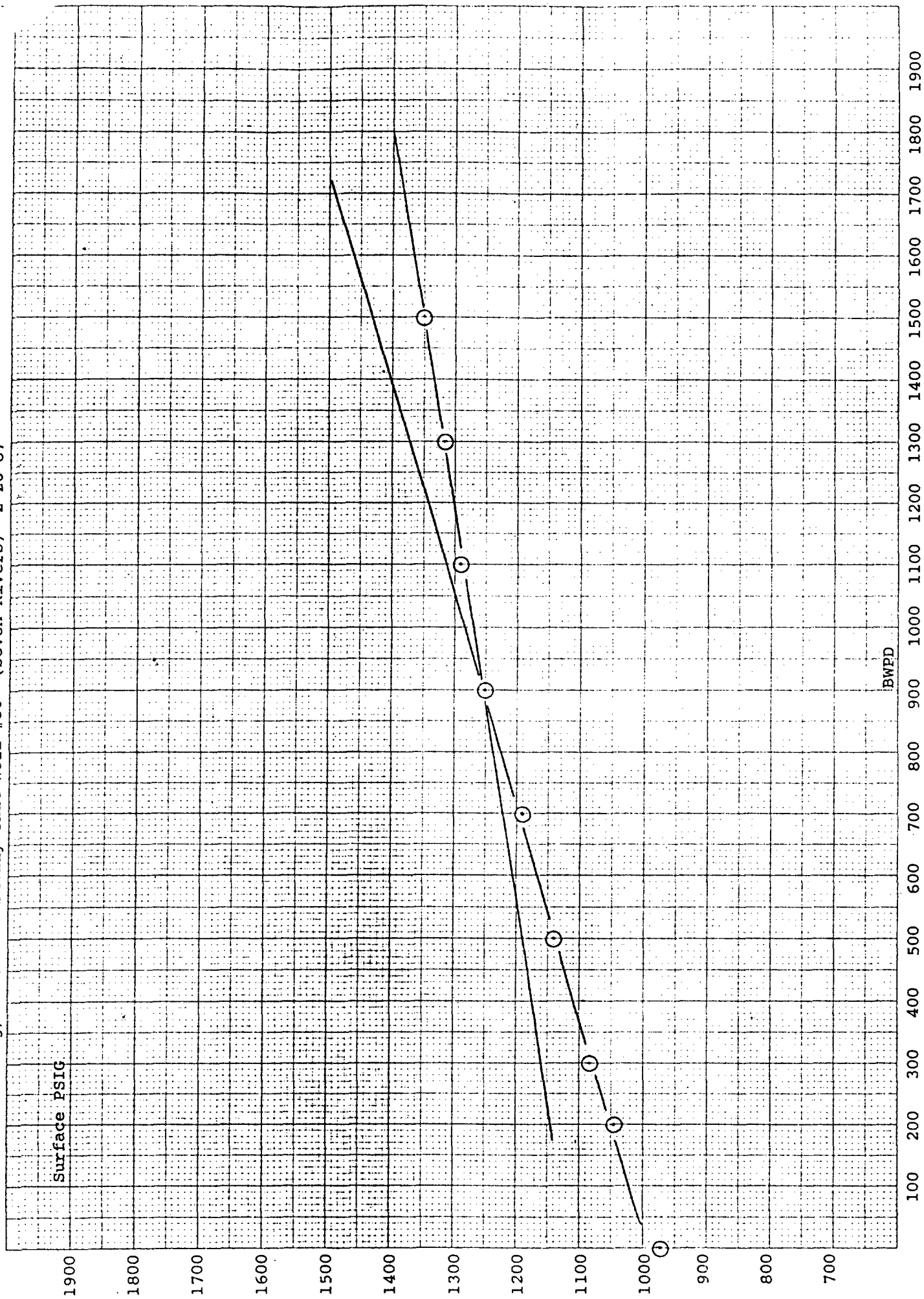
B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company Texaco Producing, Inc.						Test Date 2-26-87		Unit	
Total Depth 3900' Plug Back TD 3879						Elevation 3870' KB		Lease Skelly Unit	
Csg size 5½"		Wt 14#		d d		Set at		Perfs: From 2258 To 2403	
Tbg size 2 3/8		Wt PC		d d		Set at		Perfs: From To 	
Producing thru						Packer set at 2166'		Well # 30	
								Sec 15 Twp-Blk 17S Rge 31E	
								County Eddy State NM	
								Co. Rep Glen Carter	
Time of Reading	Elap Time Hrs.	Well Information					Remarks		
		Rate BBLs Per Day	Total BBLs Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP			
10:00	SI			975					
10:10	Start	200		975					
10:15		200		1020					
10:20		200		1040					
10:25	:15	200	2.1	1045					
10:30		300		1065					
10:35		300		1080					
10:40	:30	300	3.1	1085					
10:45		500		1125					
10:50		500		1135					
10:55	:45	500	5.2	1140					
11:00		700		1180					
11:05		700		1185					
11:10	1:00	700	7.3	1190					
11:15		900		1235					
11:20		900		1250					
11:25	1:15	900	9.3	1250					
11:30		1100		1285			1½ TM		
11:35		1100		1290					
11:40	1:30	1100	11.4	1290					
11:45		1300		1320					
11:50		1300		1320					
11:55	1:45	1300	13.5	1315					
12:00		1500		1345					
12:05		1500		1350					
12:10	2:00	1500	15.6	1350					
	End Test								
12:11	ISIP			1255					
12:12	5-minute fall	off		1195					
12:13				1180					
12:14				1175					
12:15				1170					

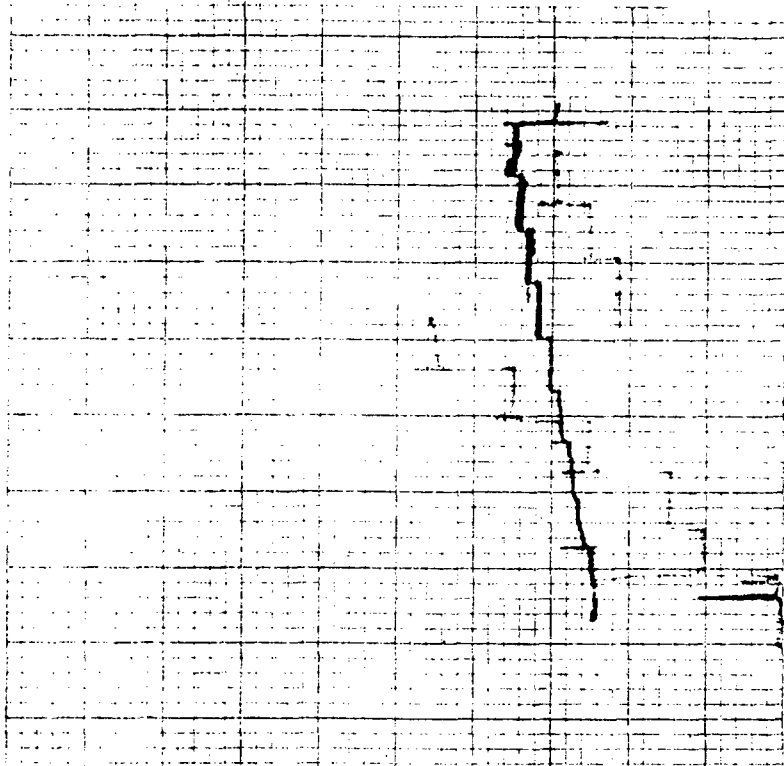


B & D WELL TESTERS, INC.

P.O. Box 5683
HOBBS, NEW MEXICO

505 397-3914

Texaco Producing, Inc.
Skelly Unit Well #30 (Seven Rivers)
2-26-87



B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company Texaco Producing Inc.					Test Date 2-26-87		Unit
Total Depth 3808'		Plug Back TD 3803'		Elevation 3880' GL		Lease	Skelly Unit
Csg size 5 1/2	Wt 15.5#	d	Set at	Perfs: From 2321	To 2446	Well # 32	
Tbg size 2 3/8	Wt PC	d	Set at	Perfs: From	To	Sec 15	Twp-Blk 17S Rge 31E
Producing thru		Packer set at 2243'				County	Eddy State NM
						Co. Rep	Glen Carter

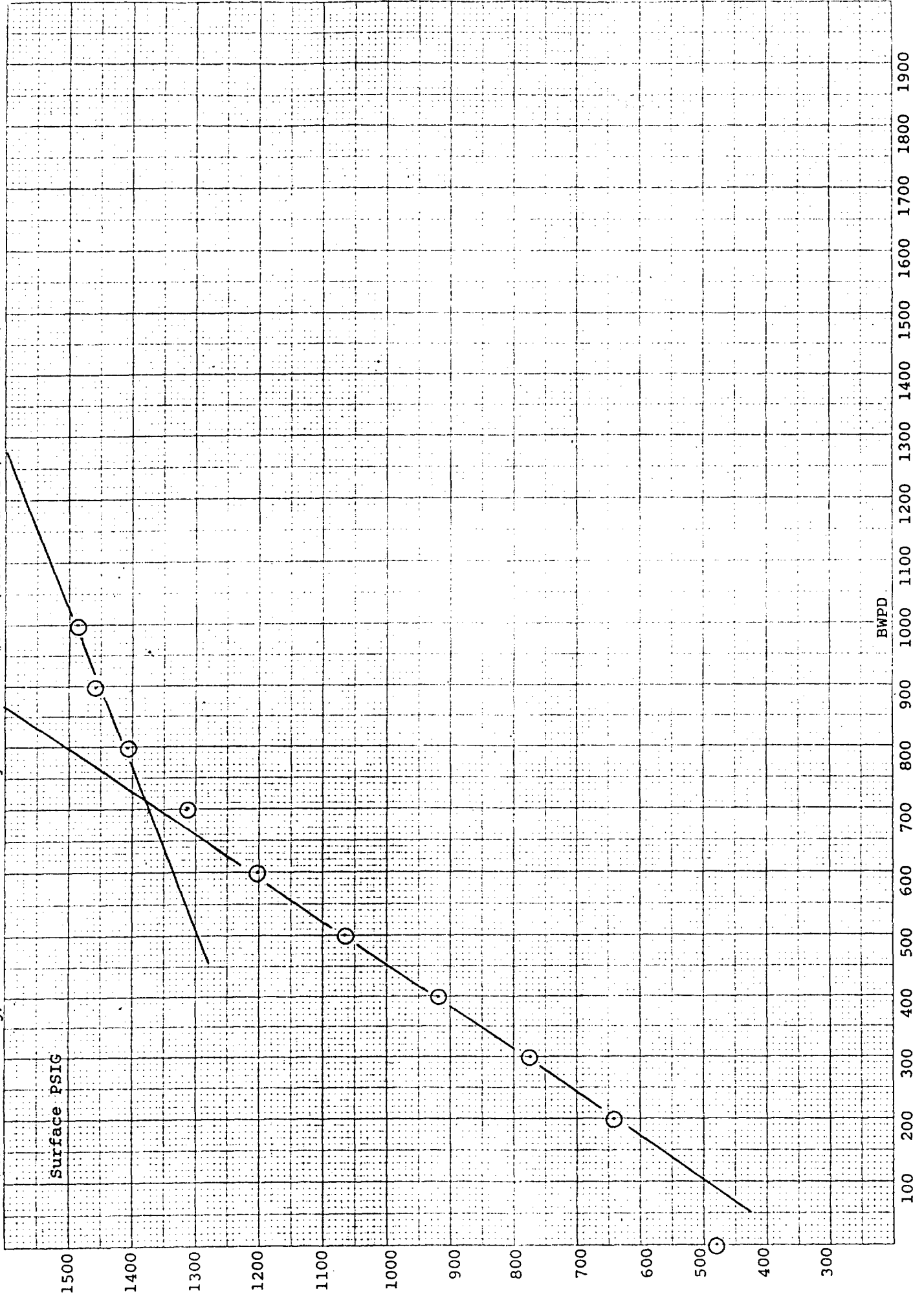
Time of Reading	Elap Time Hrs.	Well Information					Remarks
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	
12:45	SI			480			
12:50	Start	200		480			
12:55		200		560			
1:00		200		610			
1:05	:15	200	2.1	640			
1:10		300		705			
1:15		300		750			
1:20	:30	300	3.1	775			
1:25		400		830			
1:30		400		880			
1:35	:45	400	4.2	920			
1:40		500		985			
1:45		500		1030			
1:50	1:00	500	5.2	1065			
1:55		600		1115			
2:00		600		1160			
2:05	1:15	600	6.3	1200			
2:10		700		1255			
2:15		700		1290			
2:20	1:30	700	7.3	1315			
2:25		800		1360			
2:30		800		1385			
2:35	1:45	800	8.4	1405			
2:40		900		1435			
2:45		900		1450			
2:50	2:00	900	9.4	1455			
2:55		1000		1470			
3:00		1000		1480			
3:05	2:15	1000	10.5	1485			
3:06	End Test	ISIP		1425			
3:07	5-minute fall	off		1420			
	See Page #2						

Step Rate Test

Hobbs, New Mexico 88240

						Unit			
Company		Texaco Producing, Inc.		Test Date		2-26-87	Lease	Skelly Unit	
Total Depth		3808'		Plug Back TD		3803'	Elevation		3880' GL
						Well #	32		
Csg size		5½		Wt		15.5#	d		Set at
									Perfs: From
									2321 To
									2446
Tbg size		2 3/8		Wt		PC	d		Set at
									Perfs: From
									To
Producing thru				Packer set at		2243			
						Co. Rep	Glen Carter		

[illegible]

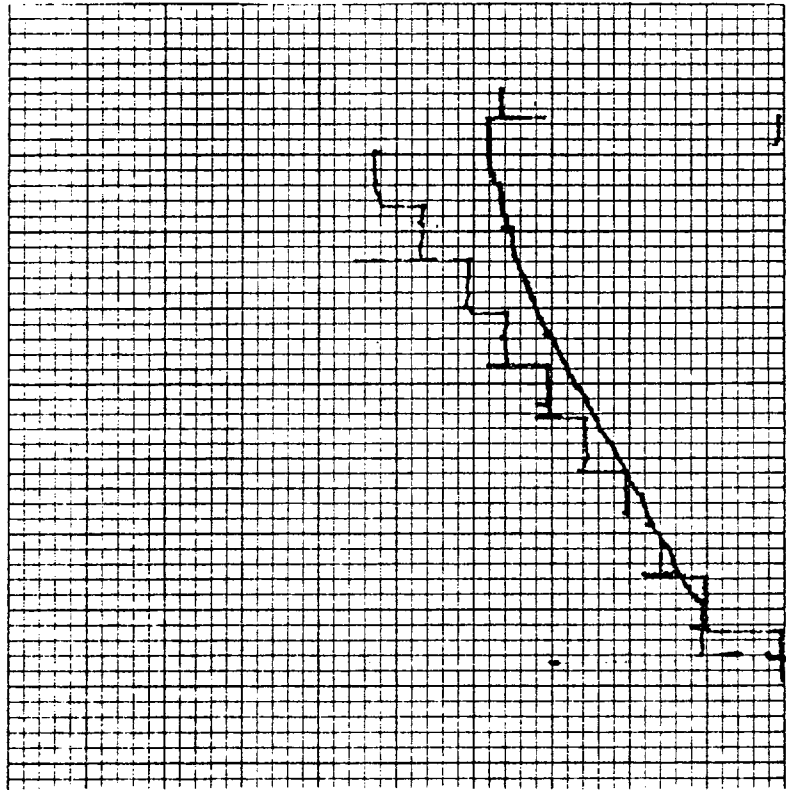


B & D WELL TESTERS, INC.

P.O. Box 5683
HOBBS, NEW MEXICO

505 397-3914

Texaco Producing, Inc.
Skelly Unit Well #32 (Seven Rivers)
2-26-87



GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK

B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company Texaco Inc.						Test Date 3-13-87		Unit	
Total Depth						Plug Back TD 3787		Elevation	
Csg size						Wt d		Set at	
Tbg size 1.66						Wt d		Set at	
Perfs: From 2283						To 2400		Sec Twp-Blk Rge	
Producing thru						Packer set at 2197		County Eddy State New Mexico	
Co. Rep Glen Carter									

Time of Reading	Elap Time Hrs.	Well Information					Remarks
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	
3:00	SI			1025			
3:05	Start	200		1025			
3:10		200		1065			
3:15		200		1080			
3:20	:15	200		1085			
3:25		400		1125			
3:30		400		1150			
3:35	:30	400		1155			
3:40		600		1215			
3:45		600		1230			
3:50	:45	600		1235			
3:55		800		1280			
4:00		800		1310			
4:05	1:00	800		1330			
4:10		1000		1390			
4:15		1000		1410			
4:20	1:15	1000		1425			
4:25		1200		1460			
4:30		1200		1470			
4:35	1:30	1200		1475			
4:40		1400		1525			
4:45		1400		1535			
4:50	1:45	1400		1540			
4:55		1600		1565			
5:00		1600		1580			
5:05	2:00	1600		1590			
5:06	ISIP			1390			
5:07	5 minute fall	off		1165			
5:08				1145			
5:09				1120			
5:10				1110			

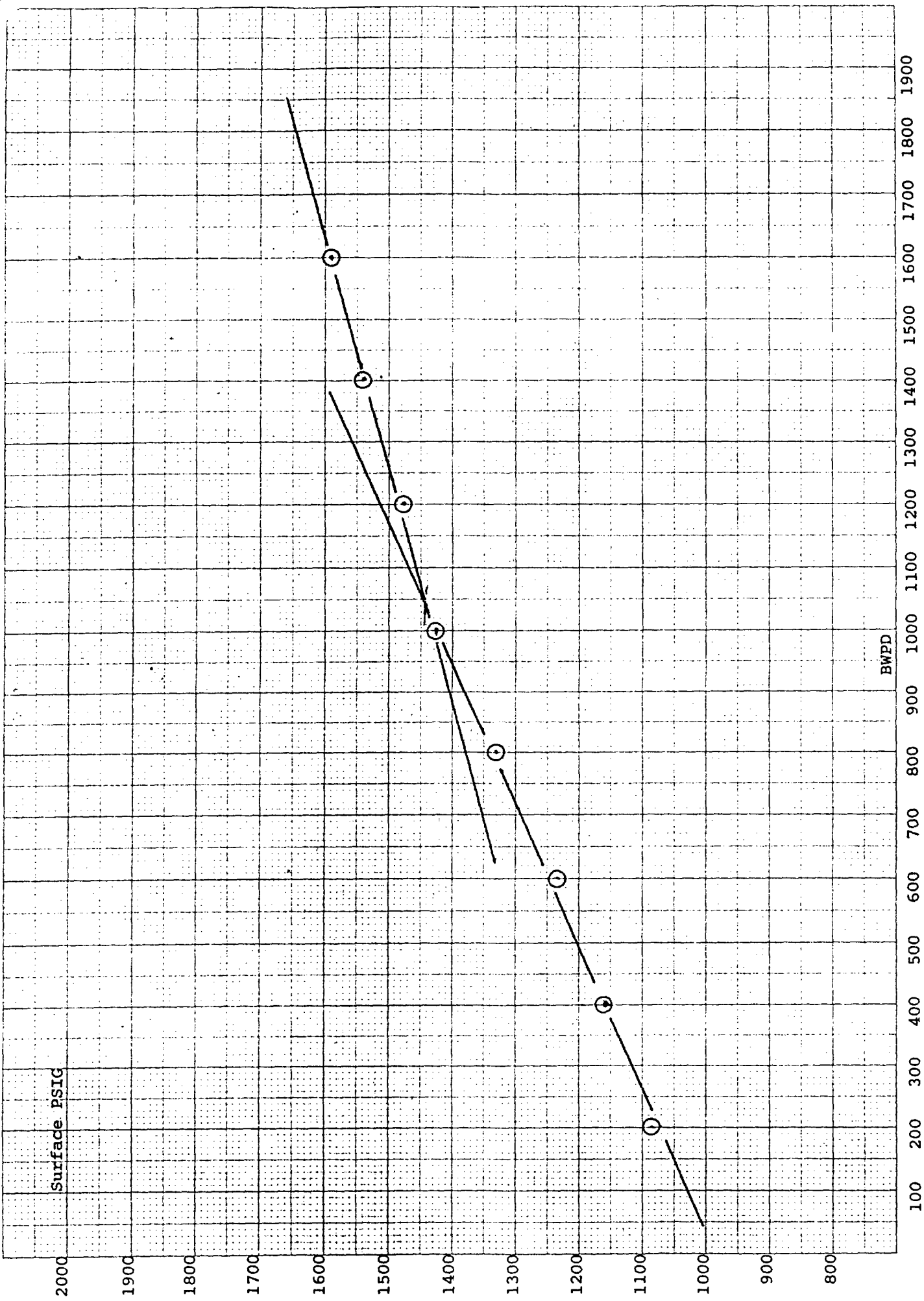
3-14-87

Skelly Unit (Seven Rivers) #42

Texaco, Inc.

Surface PSIG

BWPD



B & D WELL TESTERS

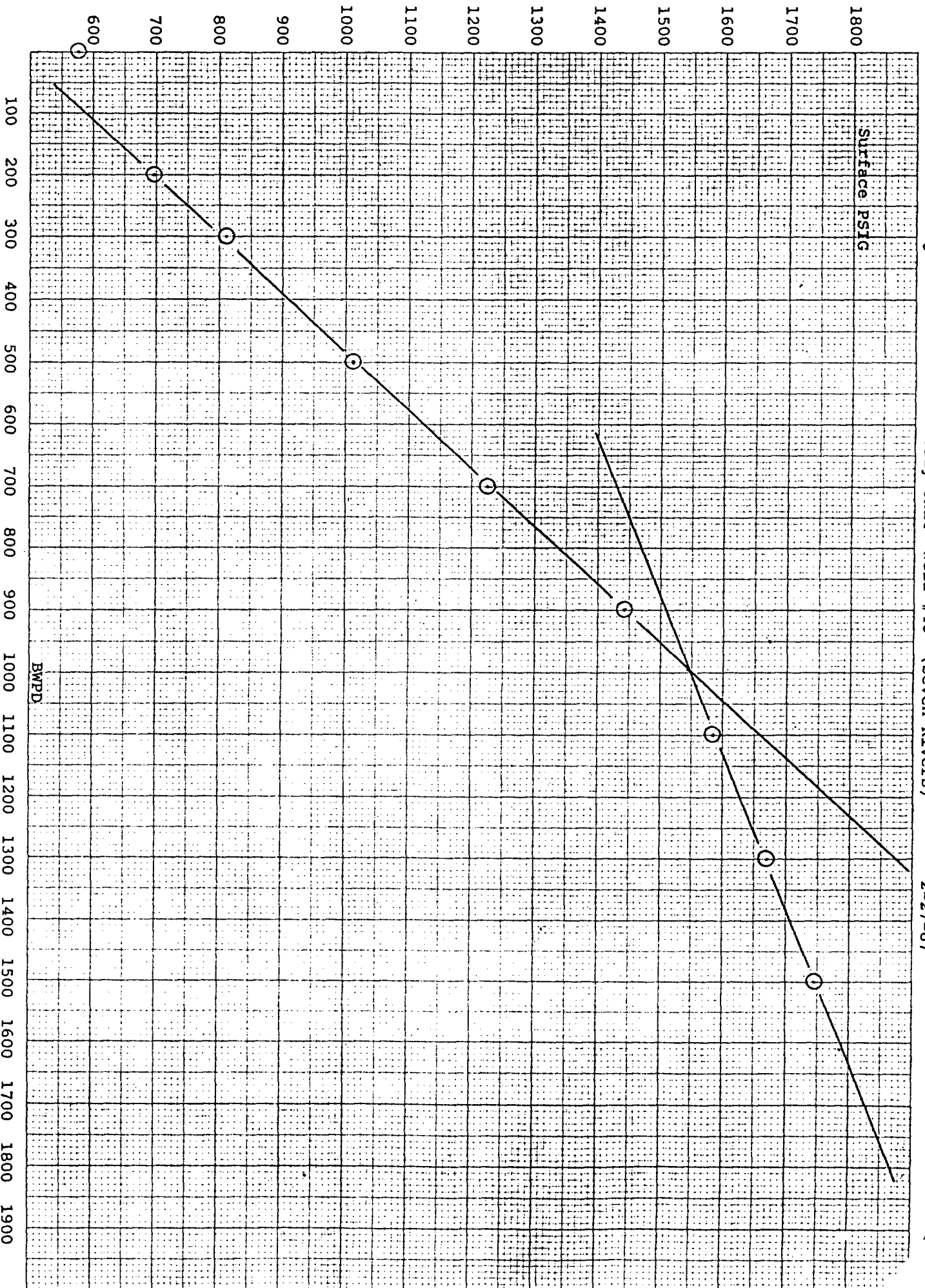
Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

Company Texaco Producing, Inc.					Test Date 2-27-87		Unit
Total Depth 3820' Plug Back TD					Elevation 3856' GL		Lease Skelly Unit
Csg size 4 1/2 Wt 11.6# d Set at					Perfs: From 2302 To 2431		Well # 46 (Seven Rivers)
Tbg size 2 3/8 Wt PC d Set at					Perfs: From To		Sec 22 Twp-Blk 17S Rge 31E
Producing thru					Packer set at 2239'		County Eddy State NM
							Co. Rep Glen Carter

Time of Reading	Elap Time Hrs.	Well Information					Remarks
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	
8:40	SI			575			
8:45	Start	200		575			
8:50		200		645			
8:55		200		670			
9:00	:15	200	2.1	695			
9:05		300		755			
9:10		300		790			
9:15	:30	300	3.1	810			
9:20		500		920			
9:25		500		975			
9:30	:45	500	5.2	1010			
9:35		700		1130			
9:40		700		1185			
9:45	1:00	700	7.3	1225			
9:50		900		1355			
9:55		900		1415			
10:00	1:15	900	9.3	1440			
10:05		1100		1535			1.5" T.M.
10:10		1100		1570			
10:15	1:30	1100	11.4	1585			
10:20		1300		1665			
10:25		1300		1670			
10:30	1:45	1300	13.5	1670			
10:35		1500		1740			
10:40		1500		1745			
10:45	2:00	1500	15.6	1745			
10:46	ISIP	End Test		1455			
10:47	5-minute fall off			1440			
10:48				1435			
10:49				1430			
10:50				1425			



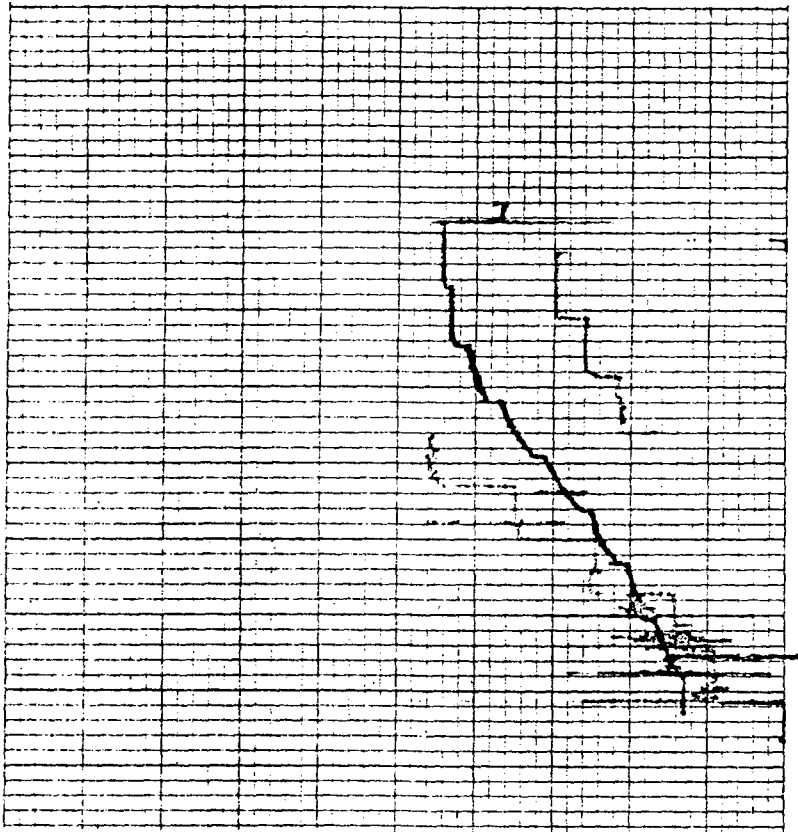
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P.O. Box 5683

HOBBS, NEW MEXICO

505 397-3914

Texaco Producing, Inc.
Skelly Unit Well #46 (Seven Rivers)
2-27-87



Step Rate Test

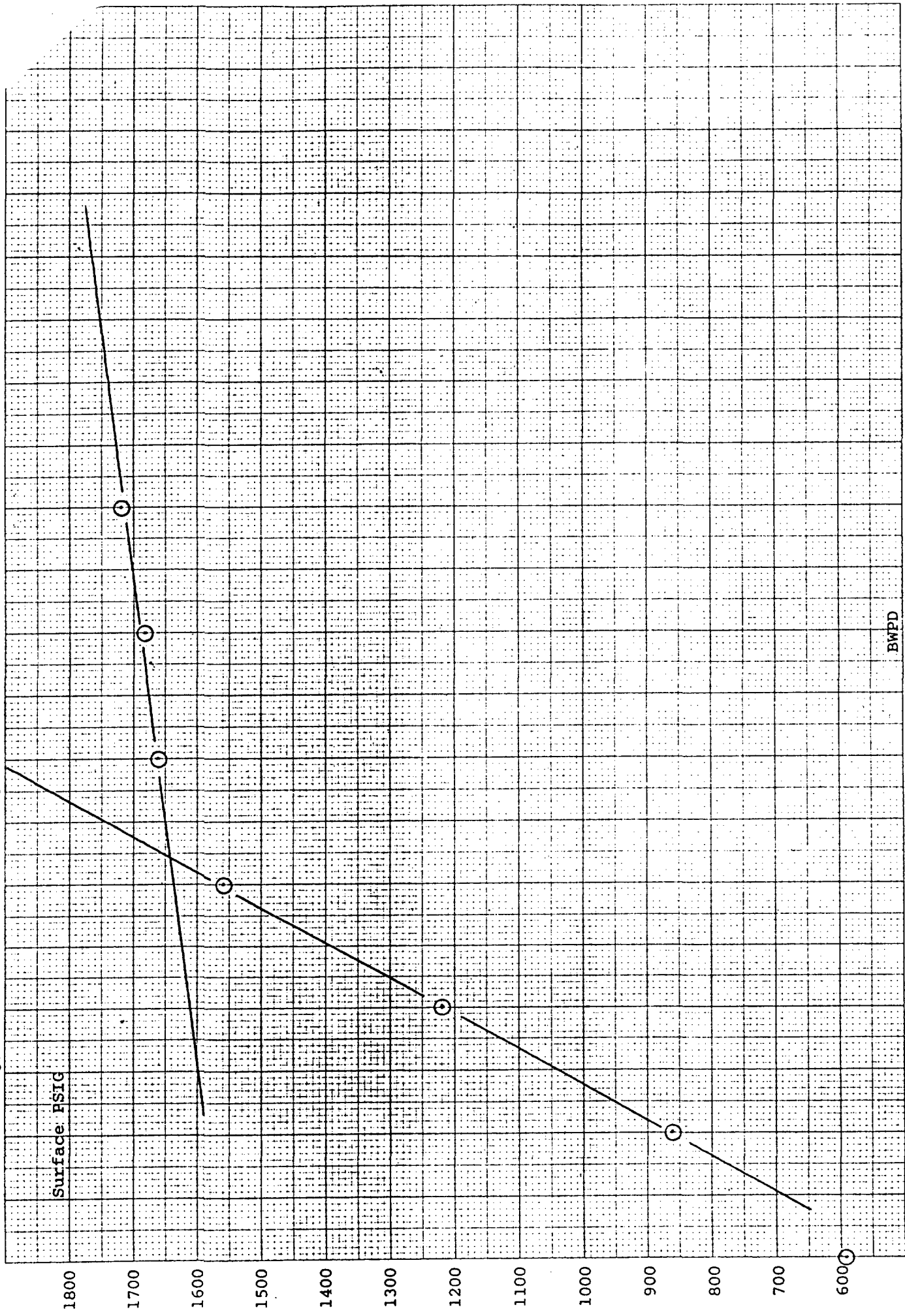
Hobbs, New Mexico 88240

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2-27-87

Skelly Unit Well #73 (Seven Rivers)

Texaco Producing, Inc.



BWPD

B & D WELL TESTERS, INC.

P.O. Box 5683
HOBBS, NEW MEXICO

505 397-3914

Texaco Producing, Inc.
Skelly Unit #73 (Seven Rivers)
2-27-87



NO. 59018

B & D WELL TESTERS

Step Rate Test

Phone (505) 397-3914

Hobbs, New Mexico 88240

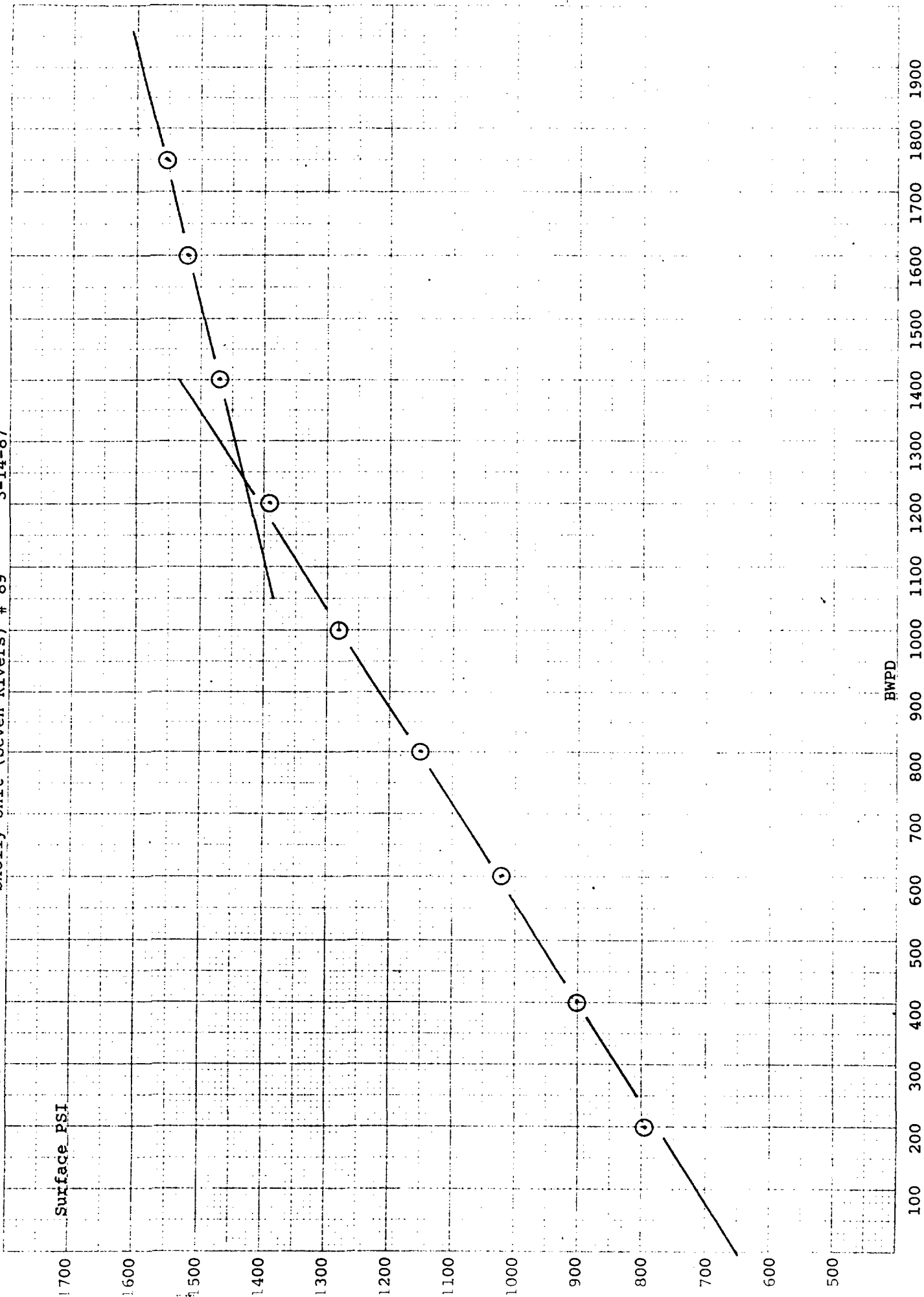
Company Texaco Inc.						Test Date 3-14-87		Unit
Total Depth						Plug Back TD 3670		Lease Skelly Unit (Seven Rive
Csg size 7" Wt d Set at						Perfs: From 2264 To 2329		Well # 89
Tbg size 2 3/8 Wt 4.7 d Set at						Perfs: From To		Sec 22 Twp-Blk 17S Rge 31E
Producing thru						Packer set at 2112		County Eddy State New Mexico
								Co. Rep Glen Carter

Time of Reading	Elap Time Hrs.	Well Information					Remarks
		Rate BBLS Per Day	Total BBLS Per Rate	Surface PSIG	Surface PSI Cor for Friction	BHP	
8:30				720			
8:35	Start	200		720			
8:40		200		770			
8:45		200		785			
8:50	:15	200		795			
8:55		400		850			
9:00		400		880			
9:05	:30	400		900			
9:10		600		960			
9:15		600		990			
9:20	:45	600		1020			
9:25		800		1090			
9:30		800		1120			
9:35	1:00	800		1150			
9:40		1000		1210			
9:45		1000		1245			
9:50	1:15	1000		1280			
9:55		1200		1335			
10:00		1200		1370			
10:05	1:30	1200		1390			
10:10		1400		1420			
10:15		1400		1450			
10:20	1:45	1400		1470			
10:25		1600		1500			
10:30		1600		1510			
10:35	2:00	1600		1520			
10:40		1750		1540			
10:45		1750		1545			
10:50	2:15	1750		1555			
10:51	5 minute fall off			1445			
10:52				1440			
10:53				1435			

Texaco Inc. Skelly Unit (Seven Rivers) # 89 3-14-87

Surface PSI

BWPD



B & D WELL TESTERS, INC.

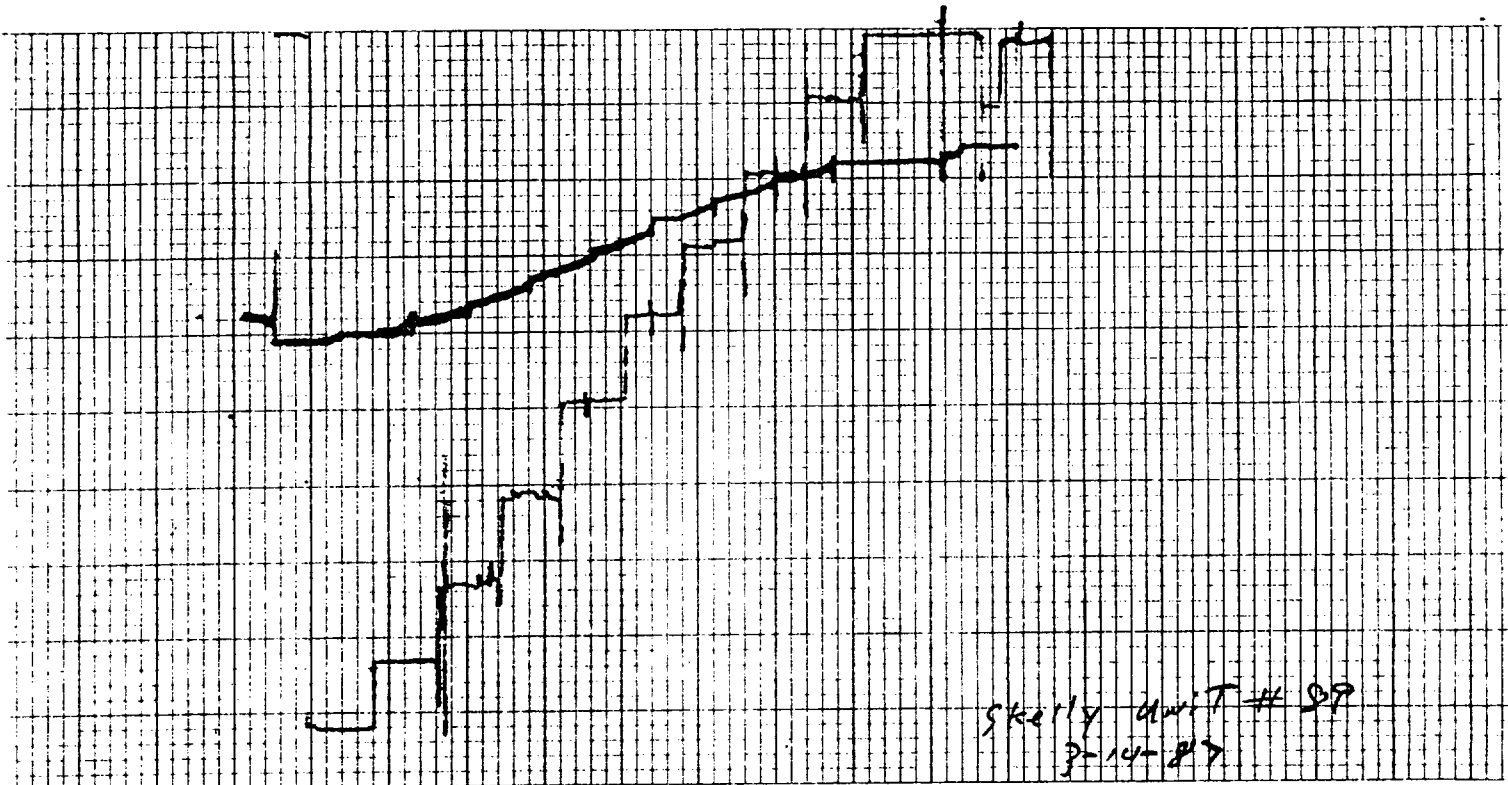
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Texaco Inc.
Skelly Unit (Seven Rivers) #89
3-14-87

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NOTION BUFFALO NEW YORK



Step Rate Test

Hobbs, New Mexico 88240

Company Texaco Inc.						Unit		
Test Date 3-14-87						Lease Skelly Unit (Seven River)		
Total Depth		Plug Back TD		Elevation		Well #: 96		
Csg size	Wt	d	Set at	Perfs: From	To	Sec	Twp-Blk	Rge
Tbg size	Wt	d	Set at	Perfs: From	To	County	Eddy	State New Mexico
Producing thru			Packer set at			Co. Rep Glen Carter		

[illegible]

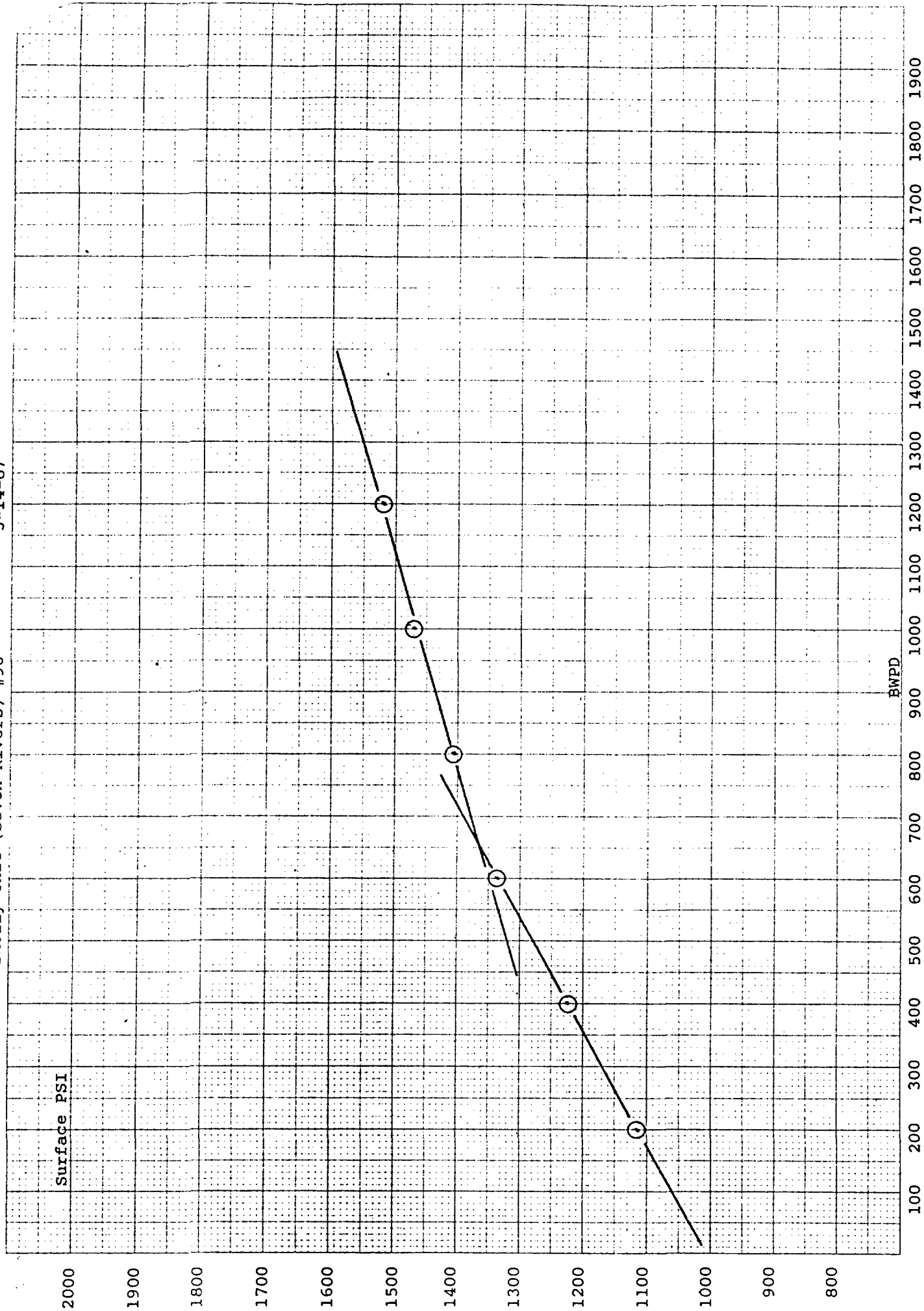
3-14-87

Skelly Unit (Seven Rivers) #96

Texaco Inc.

Surface PSI

BWPD



B & D WELL TESTERS, INC.

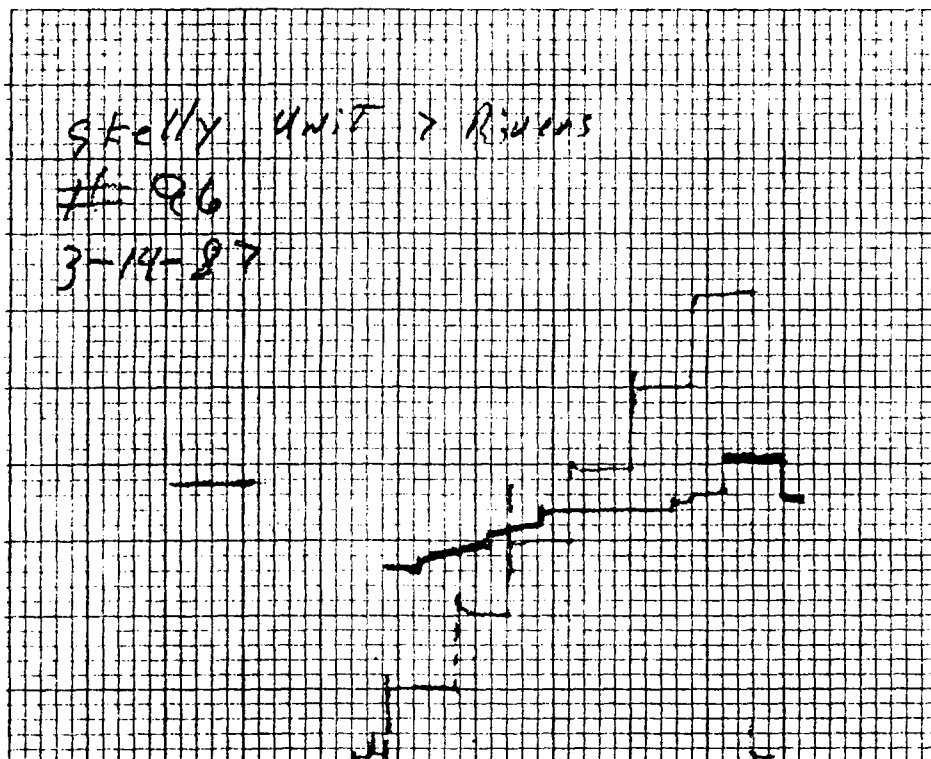
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HOBBS, NEW MEXICO

505 397-3914

Texaco Inc.

Skelly Unit (Seven Rivers) #96

3-14-87



ELL 7 7

Reproduced By
West Texas Electrical Log Service
 1305 Commerce Street
 Dallas 1, Texas

WELL NO. 1758

SCHLUMBERGER WELL SURVEYING CORPORATION HOUSTON, TEXAS									
 <i>Electrical Log</i>									
COUNTY FIELD or LOCATION WELL COMPANY	Eddy Maljamar Lynch A #5 Skelly Oil Co.	COMPANY <u>SKELLY OIL CO.</u>				Location of Well			
		<u>Skelly Unit #45</u>				1980' fr N&E/L			
		WELL <u>LYNCH A #5</u>				Sec. 22-17S-31E			
		FIELD <u>MALJAMAR</u>							
		LOCATION <u>SEC. 22-17S-31E</u>							
		COUNTY <u>EDDY</u>				Elevation: D.F. _____			
		STATE <u>NEW MEXICO</u>				K.B.: _____			
						or G.L.: _____			
						FILING No. _____			
RUN No.	1								
Date	2-14-51								
First Reading	5039								
Last Reading	612								
Feet Measured	4427								
Csg. Schlum.	612								
Csg. Driller	603								
Depth Reached	5042								
Bottom Driller	5040								
Depth Datum	RT - 9' abv. G.L.								
Mud Nat.	Zengel, Impermix								
" Density	10.1								
" Viscosity	39								
" Resist.	05 @ 42 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	025 @ 110 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
" pH	5 @ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	5.6 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Max. Temp. °F	110								
Bit Size	8" - 3100.7 7/8-5022.6 3/4"								
Spccs. - AM	10"								
AO	32" LS								
AO	19'								
Opr. Rig Time	3 1/2 hrs.								
Truck No.	504-Hobbs								
Recorded By	Cruss								
Witness By	Wilkie								
REMARKS									
THIS IS NOT A COMPLETE REPRODUCTION OF THE ORIGINAL THREE-TRACK SCHLUMBERGER LOG.									