

District I - (505) 393-6161

PO Box 1980

Hobbs, NM 88241-1980

District II - (505) 748-1283

811 S. First

Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Road

Aztec, NM 87410

New Mexico

Energy, Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street

Santa Fe, New Mexico 87505

(505) 827-7131

Form C-140

Originated 11/1/95

Submit Original
Plus 2 Copies
to appropriate
District Office

H-0428

APPLICATION FOR
QUALIFICATION OF WELL WORKOVER PROJECT
AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE CONSERVATION DIVISION.

I. Operator: Texaco Exploration & Production Inc OGRID #: 022351

Address: 205 E. Bender Blvd.; Hobbs, New Mexico 88240

Contact Party: Paula Ives Phone #: (505) 397-0432

II. Name of Well: Vacuum Grayburg San Andres Unit #139 API #: 30 025 30755

Location of Well: Unit Letter H, 1980 Feet from the North line and 1282 feet from the East line,
Section 2, Township 18S, Range 34, NMPM, Lea County

III. Date Workover Procedures Commenced: 03-24-97

Date Workover Procedures were Completed: 04-06-97

IV. Attach a description of the Workover Procedures undertaken to increase the projection from the Well.
Please see attached.

V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.

VI. Pool(s) on which Production Projection is based: Vacuum Grayburg San Andres

VII. AFFIDAVIT:

State of N. M.)
) ss.

County of Lea)

Russell S. Pool, being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.
2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.
Restoration Project.
3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

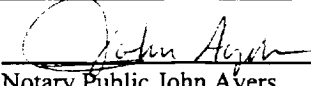
[Signature]
(Name)

Senior Engineer Hobbs Operating Unit
(Title)

[Signature]

Vacuum Grayburg San Andres Unit #139

SUBSCRIBED AND SWORN TO before me this 16th day of February, 1998.


Notary Public John Ayers

My Commission expires: 2/29/2000

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 4-6-97, 1997.


District Supervisor, District 1
Oil Conservation Division

Geologis?

Date: 2/20/98

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.
DATE: _____

Production Projection

Well Name & #:

Vacuum Grayburg San Andres Unit #139

Prior Oil Prod. Rate (BOPD):

61

Producing Formation:

Vacuum Grayburg San Andres

Oil Decline Factor:

0.981269259

Oil Decline Rate (%):

20

Prior Gas Prod. Rate (MCFGD):

10

Gas Decline Rate (%):

45

Completion Date (m/yr):

Apr-97

Gas Decline Factor:

0.951400901

Month	Projected Oil Production	Projected Gas Production	Projected Cumulative Oil Production	Projected Cumulative Gas Production
Apr-97	1854	304	1854	304
May-97	1820	289	3674	593
Jun-97	1786	275	5460	868
Jul-97	1752	262	7212	1130
Aug-97	1719	249	8931	1379
Sep-97	1687	237	10618	1616
Oct-97	1656	225	12274	1842
Nov-97	1625	214	13898	2056
Dec-97	1594	204	15492	2260
Jan-98	1564	194	17057	2454
Feb-98	1535	185	18591	2639
Mar-98	1506	176	20098	2815
Apr-98	1478	167	21576	2982
May-98	1450	159	23026	3141
Jun-98	1423	151	24449	3292
Jul-98	1396	144	25845	3436
Aug-98	1370	137	27216	3573
Sep-98	1345	130	28560	3704
Oct-98	1319	124	29880	3840
Nov-98	1295	118	31175	3946
Dec-98	1270	112	32445	4058
Jan-99	1247	107	33692	4165
Feb-99	1223	102	34915	4266
Mar-99	1200	97	36115	4363
Apr-99	1178	92	37293	4455
May-99	1156	87	38449	4542
Jun-99	1134	83	39583	4626
Jul-99	1113	79	40696	4705
Aug-99	1092	75	41789	4780
Sep-99	1072	72	42860	4852
Oct-99	1052	68	43912	4920
Nov-99	1032	65	44944	4985
Dec-99	1013	62	45956	5047
Jan-00	994	59	46950	5106
Feb-00	975	56	47925	5161
Mar-00	957	53	48882	5215

Production Projection

Apr-00	939	51	49820	5265
May-00	921	48	50742	5313
Jun-00	921	48	50742	5313
Jul-00	904	46	51646	5359
Aug-00	887	44	52533	5403
Sep-00	870	41	53403	5444
Oct-00	854	39	54257	5483
Nov-00	838	38	55095	5521
Dec-00	822	36	55918	5557
Jan-01	807	34	56725	5591
Feb-01	792	32	57517	5623
Mar-01	777	31	58294	5654
Apr-01	763	29	59056	5683
May-01	748	28	59804	5711
Jun-01	748	28	59804	5711
Jul-01	734	26	60539	5737
Aug-01	720	25	61259	5762
Sep-01	707	24	61966	5786
Oct-01	694	23	62660	5809
Nov-01	681	22	63341	5831
Dec-01	668	21	64009	5851
Jan-02	655	20	64664	5871
Feb-02	643	19	65307	5890
Mar-02	631	18	65938	5907
Apr-02	619	17	66558	5924
May-02	608	16	67165	5940
Jun-02	608	16	67165	5940
Jul-02	596	15	67762	5956
Aug-02	585	15	68347	5970
Sep-02	574	14	68921	5984
Oct-02	563	13	69485	5997
Nov-02	553	13	70038	6010
Dec-02	543	12	70580	6022
Jan-03	532	11	71112	6033
Feb-03	522	11	71635	6044
Mar-03	513	10	72147	6054
Apr-03	503	10	72651	6064
May-03	494	9	73144	6073
Jun-03	484	9	73628	6082
Jul-03	475	8	74104	6091
Aug-03	466	8	74570	6099
Sep-03	458	8	75028	6106
Oct-03	449	7	75477	6113
Nov-03	441	7	75918	6127
Dec-03	432	7	76350	6133
Jan-04	424	6	76774	6139
Feb-04	416	6	77191	6145
Mar-04	409	6	77599	6150
Apr-04	401	5	78000	

Production Projection

May-04	393	5	78393	6155
Jun-04	386	5	78780	6160
Jul-04	379	5	79158	6165
Aug-04	372	4	79530	6169
Sep-04	365	4	79895	6173
Oct-04	358	4	80253	6177
Nov-04	351	4	80604	6181
Dec-04	345	4	80949	6185
Jan-05	338	3	81287	6188
Feb-05	332	3	81619	6191
Mar-05	326	3	81944	6194
Apr-05	320	3	82264	6197
May-05	314	3	82577	6200
Jun-05	308	3	82885	6203
Jul-05	302	3	83187	6205
Aug-05	296	2	83483	6208
Sep-05	291	2	83774	6210
Oct-05	285	2	84059	6212
Nov-05	280	2	84339	6214
Dec-05	275	2	84614	6216
Jan-06	270	2	84883	6218
Feb-06	264	2	85148	6220
Mar-06	260	2	85407	6222
Apr-06	255	2	85662	6223
May-06	250	2	85912	6225
Jun-06	245	1	86157	6226
Jul-06	241	1	86397	6228
Aug-06	236	1	86634	6229
Sep-06	232	1	86865	6230
Oct-06	227	1	87093	6232
Nov-06	223	1	87316	6233
Dec-06	219	1	87535	6234
Jan-07	215	1	87749	6235
Feb-07	211	1	87960	6236
Mar-07	207	1	88167	6237
Apr-07	203	1	88370	6238
May-07	199	1	88569	6239
Jun-07	195	1	88765	6239
Jul-07	192	1	88956	6240
Aug-07	188	1	89145	6241
Sep-07	185	1	89329	6242
Oct-07	181	1	89510	6242
Nov-07	178	1	89688	6243
Dec-07	174	1	89863	6244
Jan-08	171	1	90034	6244
Feb-08	168	1	90202	6245
Mar-08	165	1	90367	6245
Apr-08	162	0	90529	6246
May-08	159	0	90687	6246

Production Projection

Jun-08	156	0	90843	6247
Jul-08	153	0	90996	6247
Aug-08	150	0	91146	6247
Sep-08	147	0	91293	6248
Oct-08	144	0	91437	6248
Nov-08	142	0	91579	6248
Dec-08	139	0	91718	6248
Jan-09	136	0	91855	6249
Feb-09	134	0	91989	6249
Mar-09	131	0	92120	6250
Apr-09	129	0	92249	6250
May-09	127	0	92375	6250
Jun-09	124	0	92500	6250
Jul-09	122	0	92621	6251
Aug-09	120	0	92741	6251
Sep-09	117	0	92858	6251
Oct-09	115	0	92973	6251
Nov-09	113	0	93086	6252
Dec-09	111	0	93197	6252
Jan-10	109	0	93306	6252
Feb-10	107	0	93412	6252
Mar-10	105	0	93517	6252
Apr-10	103	0	93620	6252
May-10	101	0	93721	6252
Jun-10	99	0	93820	6253
Jul-10	97	0	93917	6253
Aug-10	95	0	94012	6253
Sep-10	93	0	94106	6253
Oct-10	92	0	94197	6253
Nov-10	90	0	94287	6253
Dec-10	88	0	94376	6253
Jan-11	87	0	94462	6253
Feb-11	85	0	94547	6253
Mar-11	83	0	94631	6254
Apr-11	82	0	94713	6254
May-11	80	0	94793	6254
Jun-11	79	0	94872	6254
Jul-11	77	0	94949	6254
Aug-11	76	0	95025	6254
Sep-11	75	0	95100	6254
Oct-11	73	0	95173	6254
Nov-11	72	0	95245	6254
Dec-11	70	0	95315	6254
Jan-12	69	0	95384	6254
Feb-12	68	0	95452	6254
Mar-12	67	0	95518	6254
Apr-12	65	0	95584	6254
May-12	64	0	95648	6254
Jun-12	63	0	95711	6254

Production Projection

Jul-12	62	0	95772	6255
Aug-12	61	0	95833	6255
Sep-12	59	0	95892	6255
Oct-12	58	0	95950	6255
Nov-12	57	0	96008	6255
Dec-12	56	0	96064	6255
Jan-13	55	0	96119	6255
Feb-13	54	0	96173	6255
Mar-13	53	0	96226	6255
Apr-13	52	0	96278	6255
May-13	51	0	96329	6255
Jun-13	50	0	96379	6255
Jul-13	49	0	96428	6255
Aug-13	48	0	96476	6255
Sep-13	47	0	96524	6255
Oct-13	46	0	96570	6255
Nov-13	46	0	96616	6255
Dec-13	45	0	96660	6255
Jan-14	44	0	96704	6255
Feb-14	43	0	96747	6255
Mar-14	42	0	96790	6255
Apr-14	41	0	96831	6255
May-14	41	0	96872	6255
Jun-14	40	0	96912	6255
Jul-14	39	0	96951	6255
Aug-14	38	0	96989	6255
Sep-14	38	0	97027	6255
Oct-14	37	0	97064	6255
Nov-14	36	0	97100	6255
Dec-14	36	0	97136	6255
Jan-15	35	0	97171	6255
Feb-15	34	0	97205	6255
Mar-15	34	0	97239	6255
Apr-15	33	0	97272	6255
May-15	32	0	97304	6255
Jun-15	32	0	97336	6255
Jul-15	31	0	97367	6255
Aug-15	31	0	97398	6255
Sep-15	30	0	97428	6255
Oct-15	29	0	97458	6255
Nov-15	29	0	97487	6255
Dec-15	28	0	97515	6255
Jan-16	28	0	97543	6255
Feb-16	27	0	97570	6255
Mar-16	27	0	97597	6255
Apr-16	26	0	97623	6255
May-16	26	0	97649	6255
Jun-16	25	0	97675	6255
Jul-16	25	0	97699	6255

Production Projection

Aug-16	24	0	97724	6255
Sep-16	24	0	97748	6255
Oct-16	24	0	97771	6255
Nov-16	23	0	97794	6255
Dec-16	23	0	97817	6255
Jan-17	22	0	97839	6255
Feb-17	22	0	97861	6255
Mar-17	21	0	97882	6255
Apr-17	21	0	97903	6255
May-17	21	0	97924	6255
Jun-17	20	0	97944	6255
Jul-17	20	0	97964	6255
Aug-17	19	0	97984	6255
Sep-17	19	0	98003	6255
Oct-17	19	0	98021	6255
Nov-17	18	0	98040	6255
Dec-17	18	0	98058	6255
Jan-18	18	0	98075	6255
Feb-18	17	0	98093	6255
Mar-18	17	0	98110	6255
Apr-18	17	0	98127	6255
May-18	16	0	98143	6255
Jun-18	16	0	98159	6255
Jul-18	16	0	98175	6255
Aug-18	16	0	98190	6255
Sep-18	15	0	98206	6255
Oct-18	15	0	98221	6255
Nov-18	15	0	98235	6255
Dec-18	14	0	98250	6255
Jan-19	14	0	98264	6255
Feb-19	14	0	98278	6255
Mar-19	14	0	98291	6255
Apr-19	13	0	98305	6255
May-19	13	0	98318	6255
Jun-19	13	0	98330	6255
Jul-19	13	0	98343	6255
Aug-19	12	0	98355	6255
Sep-19	12	0	98368	6255
Oct-19	12	0	98379	6255
Nov-19	12	0	98391	6255
Dec-19	11	0	98403	6255
Jan-20	11	0	98414	6255
Feb-20	11	0	98425	6255
Mar-20	11	0	98436	6255
Apr-20	11	0	98446	6255
May-20	10	0	98457	6255
Jun-20	10	0	98467	6255
Jul-20	10	0	98477	6255
Aug-20	10	0	98487	6255

Production Projection

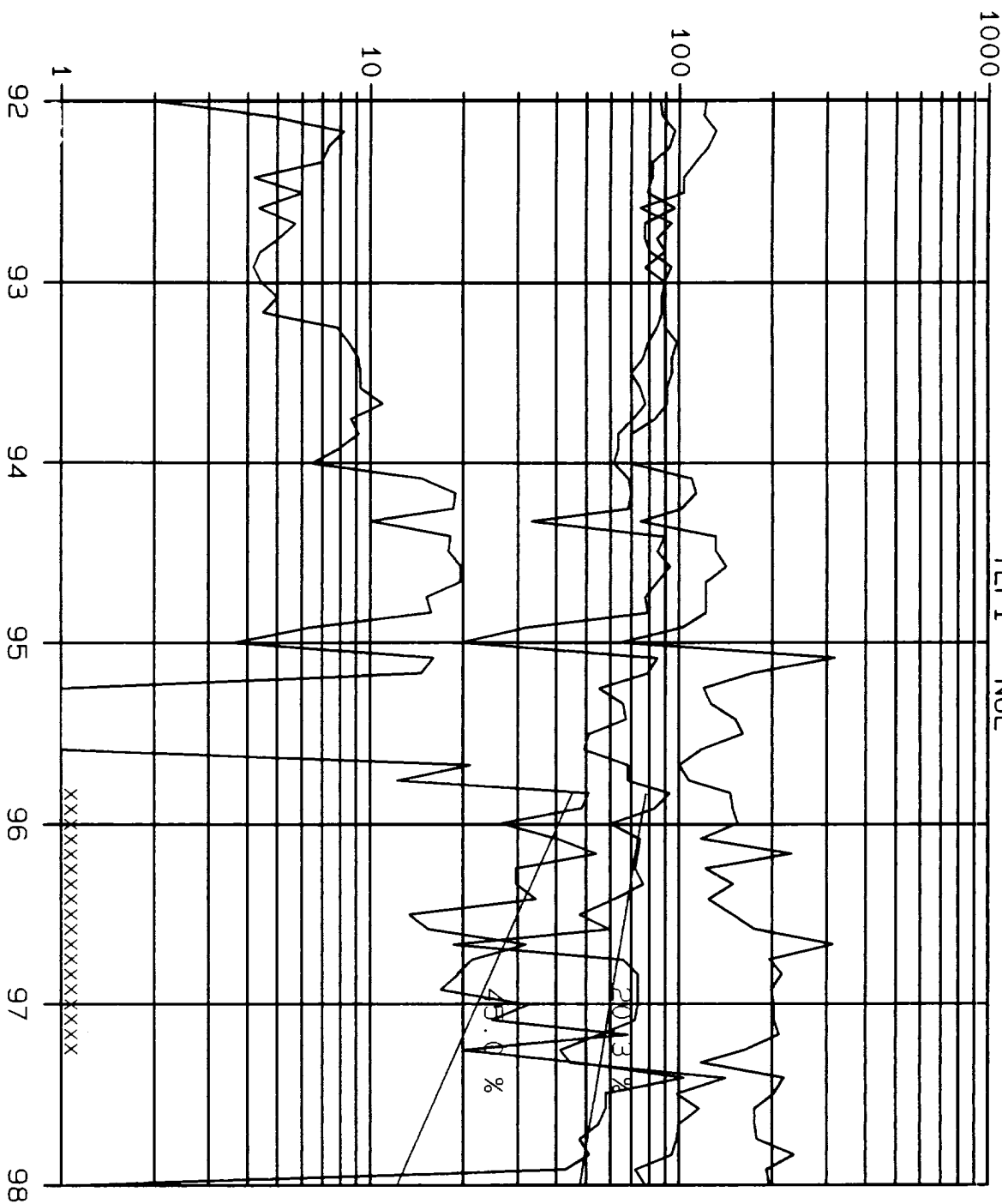
Sep-20	10	0	98497	6255
Oct-20	9	0	98506	6255
Nov-20	9	0	98515	6255
Dec-20	9	0	98524	6255
Jan-21	9	0	98533	6255
Feb-21	9	0	98542	6255
Mar-21	9	0	98551	6255
Apr-21	8	0	98559	6255
May-21	8	0	98568	6255
Jun-21	8	0	98576	6255
Jul-21	8	0	98584	6255
Aug-21	8	0	98592	6255
Sep-21	8	0	98599	6255
Oct-21	8	0	98607	6255
Nov-21	7	0	98614	6255
Dec-21	7	0	98622	6255
Jan-22	7	0	98629	6255
Feb-22	7	0	98636	6255
Mar-22	7	0	98643	6255
Apr-22	7	0	98649	6255
May-22	7	0	98656	6255
Jun-22	6	0	98663	6255
Jul-22	6	0	98669	6255
Aug-22	6	0	98675	6255
Sep-22	6	0	98681	6255
Oct-22	6	0	98687	6255
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Dec-22	6	0	98699	6255
Jan-23	6	0	98705	6255
Feb-23	6	0	98710	6255
Mar-23	5	0	98716	6255
Apr-23	5	0	98721	6255
May-23	5	0	98726	6255
Jun-23	5	0	98732	6255
Jul-23	5	0	98737	6255
Aug-23	5	0	98742	6255
Sep-23	5	0	98747	6255
Oct-23	5	0	98751	6255
Nov-23	5	0	98756	6255
Dec-23	5	0	98761	6255
Jan-24	5	0	98765	6255
Feb-24	4	0	98770	6255
Mar-24	4	0	98774	6255
Apr-24	4	0	98778	6255
May-24	4	0	98783	6255
Jun-24	4	0	98787	6255
Jul-24	4	0	98791	6255
Aug-24	4	0	98795	6255
Sep-24	4	0	98799	6255

Production Projection

Oct-24	4	0	98802	6255
Nov-24	4	0	98806	6255
Dec-24	4	0	98810	6255
Jan-25	4	0	98814	6255
Feb-25	4	0	98817	6255
Mar-25	3	0	98821	6255
Apr-25	3	0	98824	6255
May-25	3	0	98827	6255
Jun-25	3	0	98831	6255
Jul-25	3	0	98834	6255
Aug-25	3	0	98837	6255
Sep-25	3	0	98840	6255
Oct-25	3	0	98843	6255
Nov-25	3	0	98846	6255
Dec-25	3	0	98849	6255
Jan-26	3	0	98852	6255
Feb-26	3	0	98855	6255
Mar-26	3	0	98858	6255
Apr-26	3	0	98860	6255
May-26	3	0	98863	6255
Jun-26	3	0	98866	6255
Jul-26	3	0	98868	6255
Aug-26	3	0	98871	6255
Sep-26	2	0	98873	6255
Oct-26	2	0	98876	6255
Nov-26	2	0	98878	6255
Dec-26	2	0	98880	6255
Jan-27	2	0	98883	6255
Feb-27	2	0	98885	6255
Mar-27	2	0	98887	6255
Apr-27	2	0	98889	6255
May-27	2	0	98891	6255
Jun-27	2	0	98894	6255
Jul-27	2	0	98896	6255
Aug-27	2	0	98898	6255
Sep-27	2	0	98900	6255
Oct-27	2	0	98902	6255
Nov-27	2	0	98903	6255
Dec-27	2	0	98905	6255
Jan-28	2	0	98907	6255
Feb-28	2	0	98909	6255
Mar-28	2	0	98911	6255
Apr-28	2	0	98912	6255
May-28	2	0	98914	6255
Jun-28	2	0	98916	6255
Jul-28	2	0	98917	6255
Aug-28	2	0	98919	6255
Sep-28	2	0	98921	6255
Oct-28	2	0	98922	6255

VACUUM GRAYBURG SAN ANDRES UT 139 VACUUM GRAYBURG SAN ANDRES

TEPI NUL



LEASE DATA
 LSE 011124
 FLD 62180
 OPER TEPI
 ZONE NUL
 COUNTY 025
 STATE 30
 30025307550001
 STATUS 12-97
 CO 277 MBO
 CG 49 MMCF
 CM 348 MBW
 BOPD 77
 BWPD 195
 MCFPD 0
 WELLS 1
 CI 0 MBWI
 BWIPD 0

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.	30-025-30755
5. Indicate Type of Lease	STATE ☒ FEE ☐
6. State Oil / Gas Lease No.	857948
7. Lease Name or Unit Agreement Name	VACUUM GRAYBURG SAN ANDRES UNIT
8. Well No.	139
9. Pool Name or Wildcat	VACUUM GRAYBURG SAN ANDRES
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 4006' GR	

Box 1980, Hobbs, NM 88240
Box Drawer DD, Artesia, NM 88210
00 Rio Brazos Rd., Aztec, NM 87410

SUNDRY NOTICES AND REPORTS ON WELL
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.)

Type of Well: OIL WELL ☒ GAS WELL ☐ OTHER ☐

Name of Operator TEXACO EXPLORATION & PRODUCTION INC.

Address of Operator 205 E. Bender, HOBBS, NM 88240

Well Location
Unit Letter H 1980 Feet From The NORTH Line and 1282 Feet From The EAST Line
Section 2 Township 18S Range 34E NMPM LEA COUNTY

Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: Fracturing Formation ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPERATION ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: FRACTURE TREATMENT ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

- 3/24/97 - 4/6/97
1. MIRU. TOH w/ rods & pump. Installed BOP. TOH w/ tbg. Cleaned out wellbore to 4756'. Set CIBP @ 4685', shot frac window from 4492' to 4502 & 4528' to 4548' (4 jsfp, .47" holes, 32' 128 holes).
2. TIH w/ 7" Pkr, 3 1/2", 9.3K frac tbg. Tested frac tbg to 8000 psi, OK. Set Pkr @ 4237'. Loaded & tested casing to 1000#, OK.
3. Pumped 3 drums of TH-756 inhibitor mixed in 30 bbls fresh water across perfs 4347-4678'.
4. Fracture treated perfs 4347-4578' with 36,000 gals 40# Crossed-Linked gel, 800# adomite regaine, & 92,408 # 16/30 16/30 Ottawa sand & 27,240# 16/30 curable resin coated sand. Flushed w/ 41 bbls slick water. Max P = 3850#, AIR = 35.2 BPM. Opened for forced closure. SION.
5. TOH w/ pkr. TIH w/ bit, tagged fill @ 4355'. Drilled out sand & CIBP @ 4685' to 4848'. Circd hole clean.
6. TIH w/ production equipment & returned well to production.
OPT 4/15/97 PUMPING BY ROD PUMP: 121 BOPD, 297 BWPD, 64 MCFD
(TEPI INTERNAL STATUS REMAINS: PM)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Monte C. Duncan TITLE Engr Asst DATE 7/10/97

TYPE OR PRINT NAME Monte C. Duncan Telephone No. 397-0418

APPROVED BY Paul Kautz Geologist TITLE Geologist DATE 7/10/97

CONDITIONS OF APPROVAL, IF ANY: