

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-0321

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 S. Ives Phone #: (505) 397-0432

II. Name of Well: Vacuum Grayburg San Andres #152 API #: 30 025 30803

Location of Well: Unit Letter D, 660 Feet from the North line and 1310 feet from the West line,
Section 2, Township 18S, Range 34E, NMPM, Lea County

III. Date Workover Procedures Commenced: 10-28-96

Date Workover Procedures were Completed: 12-16-96

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

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)

SUBSCRIBED AND SWORN TO before me this 12th day of June, 1997.

Pam D. Hunt
Notary Public Pam D. Hunt

My Commission expires: 9/13/97

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 12-16-96, 19 .

[Signature]
District Supervisor, District 1
Oil Conservation Division

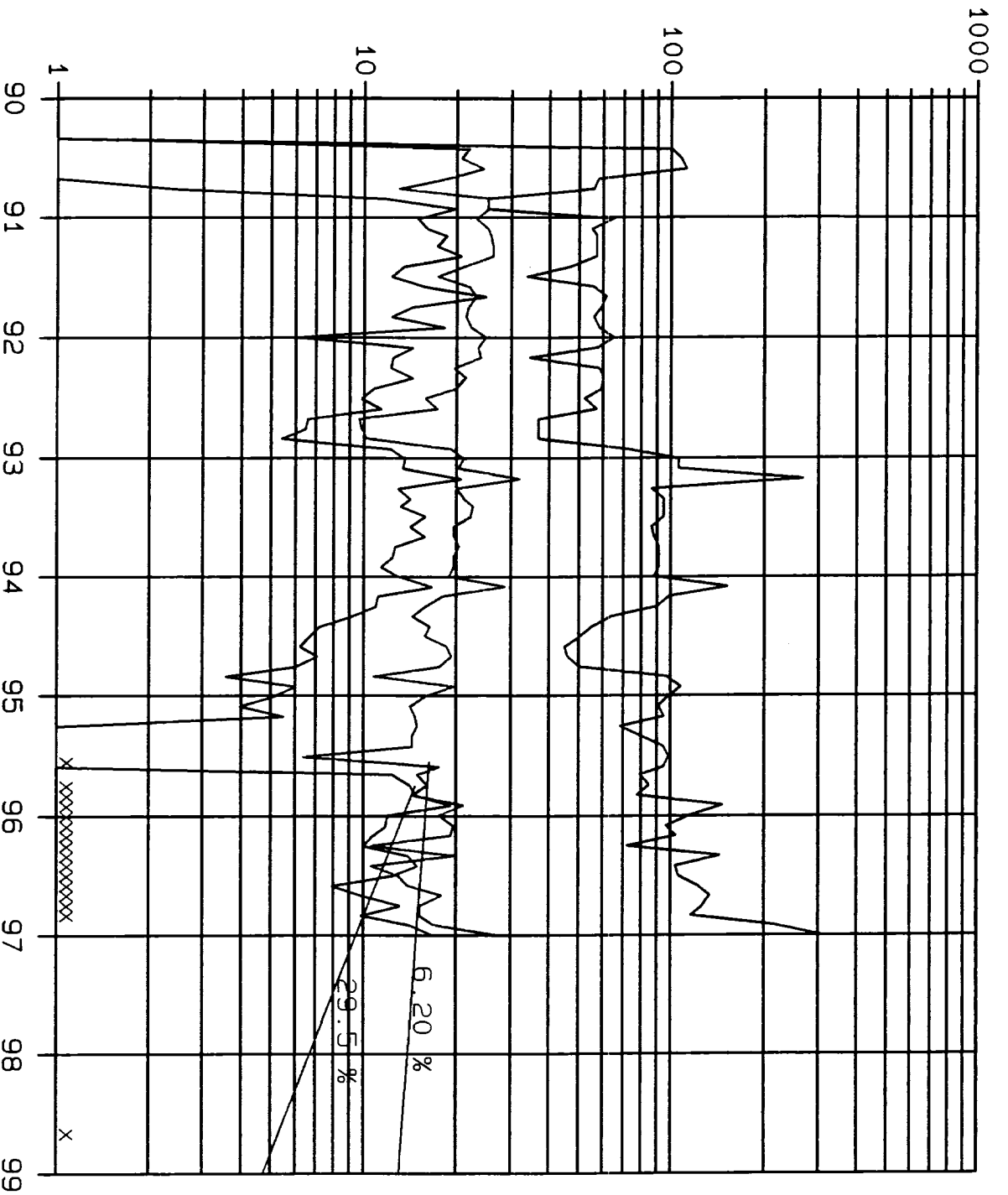
Date: 6/19/97

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

6-24-97

JUN 1997
Received
Hobbs
OCD

VACUUM GRAYBURG SAN ANDRES UT 152



LEASE DATA
 LSE 011124
 FLD 62180
 OPER TEPI
 ZONE NUL
 --
 COUNTY 025
 STATE 30
 30025308030001
 STATUS 12-96
 CO 46 MBO
 CG 26 MCMF
 CW 209 MBW
 BOPD 27
 BWPD 305
 MCFPD 17
 WELLS 1
 CI 0 MBWI
 BWIPD 0

6.20 %
 29.5 %

Production Projection

Well Name & #: Producing Formation: Oil Decline Rate (%): Gas Decline Rate (%): Completion Date (m/yr):	VACUUM GRAYBURG SAN ANDRES #152		Prior Oil Prod. Rate (BOPD):		3
	VACUUM GRAYBURG SAN ANDRES		Oil Decline Factor:		0.994680422
	6		Prior Gas Prod. Rate (MCFGD):		13
	30		Gas Decline Factor:		0.971290394
	Dec-96				
Month	Projected Oil Production	Projected Gas Production	Projected Cumulative Oil Production	Projected Cumulative Gas Production	
Dec-96	91	395	91	395	
Jan-97	91	384	182	779	
Feb-97	90	373	272	1152	
Mar-97	90	362	362	1514	
Apr-97	89	352	451	1866	
May-97	89	342	540	2207	
Jun-97	88	332	628	2539	
Jul-97	88	322	716	2862	
Aug-97	87	313	804	3175	
Sep-97	87	304	890	3479	
Oct-97	86	295	977	3774	
Nov-97	86	287	1063	4061	
Dec-97	86	279	1148	4339	
Jan-98	85	271	1234	4610	
Feb-98	85	263	1318	4873	
Mar-98	84	255	1402	5128	
Apr-98	84	248	1486	5376	
May-98	83	241	1569	5617	
Jun-98	83	234	1652	5851	
Jul-98	82	227	1735	6078	
Aug-98	82	221	1817	6299	
Sep-98	82	214	1898	6513	
Oct-98	81	208	1979	6721	
Nov-98	81	202	2060	6924	
Dec-98	80	196	2140	7120	
Jan-99	80	191	2220	7311	
Feb-99	79	185	2299	7496	
Mar-99	79	180	2378	7676	
Apr-99	79	175	2457	7851	
May-99	78	170	2535	8021	
Jun-99	78	165	2613	8186	
Jul-99	77	160	2690	8346	
Aug-99	77	156	2767	8502	
Sep-99	76	151	2843	8653	
Oct-99	76	147	2920	8799	
Nov-99	76	143	2995	8942	

Production Projection

Dec-99	75	138	3070	9080
Jan-00	75	135	3145	9215
Feb-00	75	135	3145	9215
Mar-00	74	131	3220	9346
Apr-00	74	127	3294	9473
May-00	74	123	3368	9596
Jun-00	73	120	3441	9715
Jul-00	73	116	3514	9832
Aug-00	73	113	3586	9945
Sep-00	72	110	3658	10054
Oct-00	72	107	3730	10161
Nov-00	71	103	3801	10264
Dec-00	71	101	3872	10365
Jan-01	71	98	3943	10463
Feb-01	71	98	3943	10463
Mar-01	70	95	4013	10557
Apr-01	70	92	4083	10649
May-01	69	89	4153	10739
Jun-01	69	87	4222	10826
Jul-01	69	84	4290	10910
Aug-01	68	82	4359	10992
Sep-01	68	80	4427	11072
Oct-01	68	77	4494	11149
Nov-01	67	75	4562	11224
Dec-01	67	73	4629	11297
Jan-02	67	71	4695	11368
Feb-02	67	71	4695	11368
Mar-02	66	69	4762	11437
Apr-02	66	67	4827	11504
May-02	66	65	4893	11569
Jun-02	65	63	4958	11632
Jul-02	65	61	5023	11693
Aug-02	64	59	5087	11752
Sep-02	64	58	5152	11810
Oct-02	64	56	5215	11866
Nov-02	63	55	5279	11921
Dec-02	63	53	5342	11974
Jan-03	63	51	5405	12025
Feb-03	62	50	5467	12075
Mar-03	62	49	5529	12124
Apr-03	62	47	5591	12171
May-03	61	46	5652	12217
Jun-03	61	44	5714	12261
Jul-03	61	43	5774	12304
Aug-03	60	42	5835	12346
Sep-03	60	41	5895	12387
Oct-03	60	40	5955	12427
Nov-03	60	38	6014	12465
Dec-03	59	37	6074	12502

Production Projection

Jan-04	59	36	6133	12539
Feb-04	59	35	6191	12574
Mar-04	58	34	6249	12608
Apr-04	58	33	6307	12641
May-04	58	32	6365	12674
Jun-04	57	31	6422	12705
Jul-04	57	30	6479	12735
Aug-04	57	30	6536	12765
Sep-04	56	29	6593	12794
Oct-04	56	28	6649	12822
Nov-04	56	27	6704	12849
Dec-04	56	26	6760	12875
Jan-05	55	26	6815	12901
Feb-05	55	25	6870	12925
Mar-05	55	24	6925	12949
Apr-05	54	23	6979	12973
May-05	54	23	7033	12996
Jun-05	54	22	7087	13018
Jul-05	53	21	7141	13039
Aug-05	53	21	7194	13060
Sep-05	53	20	7247	13080
Oct-05	53	20	7299	13100
Nov-05	52	19	7352	13119
Dec-05	52	19	7404	13138
Jan-06	52	18	7456	13156
Feb-06	52	18	7507	13173
Mar-06	51	17	7558	13190
Apr-06	51	17	7609	13207
May-06	51	16	7660	13223
Jun-06	50	16	7711	13238
Jul-06	50	15	7761	13253
Aug-06	50	15	7811	13268
Sep-06	50	14	7860	13282
Oct-06	49	14	7910	13296
Nov-06	49	13	7959	13310
Dec-06	49	13	8008	13323
Jan-07	49	13	8056	13336
Feb-07	48	12	8105	13348
Mar-07	48	12	8153	13360
Apr-07	48	12	8201	13372
May-07	48	11	8248	13383
Jun-07	47	11	8295	13394
Jul-07	47	11	8343	13404
Aug-07	47	10	8389	13415
Sep-07	47	10	8436	13425
Oct-07	46	10	8482	13435
Nov-07	46	9	8528	13444
Dec-07	46	9	8574	13453
Jan-08	46	9	8620	13462

Production Projection

Feb-08	45	9	8665	13471
Mar-08	45	8	8710	13480
Apr-08	45	8	8755	13488
May-08	45	8	8800	13496
Jun-08	44	8	8844	13503
Jul-08	44	8	8888	13511
Aug-08	44	7	8932	13518
Sep-08	44	7	8976	13525
Oct-08	43	7	9019	13532
Nov-08	43	7	9063	13539
Dec-08	43	7	9106	13545
Jan-09	43	6	9148	13552
Feb-09	43	6	9191	13558
Mar-09	42	6	9233	13564
Apr-09	42	6	9275	13570
May-09	42	6	9317	13575
Jun-09	42	5	9359	13581
Jul-09	41	5	9400	13586
Aug-09	41	5	9441	13591
Sep-09	41	5	9482	13596
Oct-09	41	5	9523	13601
Dec-09	41	5	9564	13606
Jan-10	40	5	9604	13610
Feb-10	40	4	9644	13615
Mar-10	40	4	9684	13619
Apr-10	39	4	9724	13623
May-10	39	4	9763	13627
Jun-10	39	4	9802	13631
Jul-10	39	4	9841	13635
Aug-10	39	4	9880	13639
Oct-10	38	4	9919	13643
Nov-10	38	4	9957	13646
Dec-10	38	3	9996	13650
Jan-11	38	3	10034	13653
Feb-11	37	3	10071	13656
Mar-11	37	3	10109	13659
Apr-11	37	3	10146	13662
May-11	37	3	10184	13665
Jun-11	37	3	10221	13668
Jul-11	37	3	10258	13671
Aug-11	36	3	10294	13674
Sep-11	36	3	10331	13676
Oct-11	36	3	10367	13679
Nov-11	36	2	10403	13681
Dec-11	36	2	10439	13684
Jan-12	35	2	10474	13686
Feb-12	35	2	10510	13688
	35	2	10545	13691
	35	2	10580	13693

Production Projection

Mar-12	35	2	10615	13695
Apr-12	35	2	10650	13697
May-12	35	2	10685	13699
Jul-12	34	2	10719	13701
Aug-12	34	2	10753	13703
Sep-12	34	2	10787	13704
Oct-12	34	2	10821	13706
Nov-12	34	2	10855	13708
Dec-12	33	2	10888	13709
Jan-13	33	2	10921	13711
Feb-13	33	2	10954	13713
Mar-13	33	2	10987	13714
May-13	33	1	11020	13716
Jun-13	33	1	11053	13717
Jul-13	32	1	11085	13718
Aug-13	32	1	11117	13720
Sep-13	32	1	11149	13721
Oct-13	32	1	11181	13722
Nov-13	32	1	11213	13724
Dec-13	31	1	11244	13725
Jan-14	31	1	11276	13726
Mar-14	31	1	11307	13727
Apr-14	31	1	11338	13728
May-14	31	1	11369	13729
Jun-14	31	1	11400	13730
Jul-14	30	1	11430	13731
Aug-14	30	1	11461	13732
Sep-14	30	1	11491	13733
Oct-14	30	1	11521	13734
Nov-14	30	1	11551	13735
Dec-14	30	1	11581	13736
Jan-15	29	1	11610	13737
Mar-15	29	1	11640	13738
Apr-15	29	1	11669	13738
May-15	29	1	11698	13739
Jun-15	29	1	11727	13740
Jul-15	28	1	11756	13741
Aug-15	28	1	11785	13741
Sep-15	28	1	11813	13742
Oct-15	28	1	11841	13743
Nov-15	28	1	11870	13743
Dec-15	28	1	11898	13744
Jan-16	27	1	11926	13745
Mar-16	27	1	11953	13745
Apr-16	27	1	11981	13746
	27	1	12008	13746
	27	1	12036	13747
	27	1	12063	13747
	27	1	12090	13748

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.	30-025-30803
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.	152
9. Pool Name or Wildcat	VACUUM GRAYBURG SAN ANDRES

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.)

1. Type of Well:	OIL WELL ☒ GAS WELL ☐ OTHER ☐
2. Name of Operator	TEXACO EXPLORATION & PRODUCTION INC.
3. Address of Operator	205 E. Bender, HOBBS, NM 88240
4. Well Location	Unit Letter <u>D</u> : <u>660</u> Feet From The <u>NORTH</u> Line and <u>1310</u> Feet From The <u>WEST</u> Line Section <u>02</u> Township <u>18S</u> Range <u>34E</u> NMPM <u>LEA</u> COUNTY
10. Elevation (Show whether DF, RKB, RT, GR, etc.)	4019' GR

11. 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: ☐

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.

The notice of intent dated 10/23/96 to perform this workover was approved by the NMOCD on 10/25/96.

10/28/96 - 11/5/96

1. MIRU. TOH w/ rods & pump. Installed BOP. TOH w/ tbg. TIH w/ bit, C/O to 4811' (PBDT @ 4850').
2. Perforated w/ 8 JSPF from 4560' to 4580' (.46", 20', 160 holes). Sptd 4750# 20/40 sand from PBDT to 4640'. Tagged sand @ 4730'.
3. TIH to 4414', sptd 2000# 20/40 sand. TIH w/ 7" treating pkr & 3-1/2", 10K frac tubing. Set pkr @ 4309', loaded backside & tested to 500#, OK.
4. Pumped 2 drums of TH-756 inhibitor mixed in 20 bbls of fresh water across perms 4414' - 4644' w/ 24,000 gals 40# YF-40 Gel, 600# adamite regaine, 83,000# 16/30 Ottawa sand & 27,520 curable resin coated sand. Max P = 5160#, AIR = 30 BPM.
5. Flowed back. SION to set sand. Released & TOH w/ packer & frac tubing. TIH w/ bit, tagged up @ 4430', C/O to 4848', circd hole clean.
6. TIH w/ production equipment & returned well to production.

OPT 12/16/96 PUMPING BY ROD PUMP: 27 BOPD, 305 BWPD, 17 MCFD

(INTERNAL TEPI 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 1/17/97

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

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY JERRY SEXTON

CONDITIONS OF APPROVAL, IF ANY: DISTRICT I SUPERVISOR

DATE JAN 22 1997