

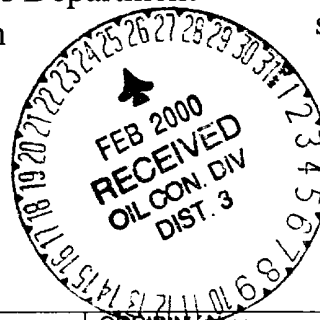
District I - (505) 393-6161  
1625 N. French Dr  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV - (505) 827-7131

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  
Revised 06/9

SUBMIT ORIGINAL  
PLUS 2 COPIES  
TO APPROPRIATE  
DISTRICT OFFICE

APPLICATION FOR  
WELL WORKOVER PROJECT



I. Operator and Well

Operator name & address Cross Timbers Oil Co. 2700 Farmington Avenue, Building K, Suite 1 Farmington, NM 87401					OCID Number <b>167067</b>				
Contact Party Jeffery W. Patton					Phone 505-324-1090				
Property Name <b>SCHWERDTFEGER A</b>					Well Number 5E		API Number <b>3045-24790</b>		
UL A	Section 6	Township 27N	Range 08W	Feet From The 850'	North/South Line NORTH	Feet From The 1,060'	East/West Line EAST	County SAN JUAN	

II. Workover

Date Workover Commenced: 05/08/99	Previous Producing Pool(s) (Prior to Workover): <b>Recomplete from Dakota to Wildcat Gallup. DHC.</b>
Date Workover Completed: 05/15/99	

III. Attach a description of the Workover Procedures performed to increase production.

IV. Attach a production decline curve or table showing at least twelve months of production prior to the workover and at least three months of production following the workover reflecting a positive production increase.

V. AFFIDAVIT:

State of New Mexico )  
 ) ss.  
County of San Juan )  
Jeffery W. Patton

, being first duly sworn, upon oath states:

- I am the Operator, or authorized representative of the Operator, of the above-referenced Well.
- I have made, or caused to be made, a diligent search of the production records reasonably available for this Well.
- To the best of my knowledge, this application and the data used to prepare the production curve and/or table for this Well are complete and accurate.

Signature Jeffery W. Patton Title Production Engineer Date 02/23/2000  
SUBSCRIBED AND SWORN TO before me this 23rd day of February, 2000

Notary Public

My Commission expires: 6/10/03

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a Well Workover Project and the Division hereby verifies the data shows a positive production increase. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project was completed on 5/5, 99.

Signature District Supervisor <u>357</u>	OCD District <u>3</u>	Date <u>5/5/00</u>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: \_\_\_\_\_

# CROSS TIMBERS OPERATING COMPANY

SAN JUAN DISTRICT

WELL RESTORATION

Tuesday, February 22, 2000

Page 1 of 4

SCHWERDTFEGER A

WELL # 5E

RESERVOIR: DAKOTA

CTOC FORECAST:

27 MCFPD

JOB TYPE: Chg BHA

05/08/1999 First report for AFE #99248 to recomplete to the Gallup fmt. FTP 140 psig, SICP 210 psig. MIRU PU. Blw well dwn. ND WH. NU BOP. TIH w/4 jts 2-3/8" tbg & tagged up @ 7,175' (no fill). TOH & LD 4 jts 2-3/8" tbg. TOH w/222 jts 2-3/8" tbg, SN & NC. SDFN. RWTP on csg @ 5:30 p.m. F. 2 BO, NR BW, 225 MCF, FTP 62 psig, SICP 170 psig, LP 153 psig, SP 21 psig, DP 162 psig, op ck, 6.5 hrs.

05/11/1999 FCP 140 psig. MIRU Blue Jet WL. Ran GR/CCL log fr/7,010'-300' KB. Correlated GR/CCL log to Gearhart-Owen CDL/GR OH log. RIH & set CIBP @ 7,000' KB. Loaded hole w/40 bbls 2% KCl wtr. RIH w/3-1/8" HSC perf gun & perfd the Gallup w/1 JSPF as follows: 6,554', 52', 6,446', 33', 25', 19', 11', 6,399', 96', 83', 74', 68', 64', 41', 37', 22', 18', 6,262', 26', 02', 6,194', 85', 51', 21' & 11' (443' overall, 25 holes). RDMO Blue Jet WL. PU & TIH w/Baker model "R" pkr & 220 jts 2-3/8" tbg. Hydrotested tbg to 5,000 psig while TIH. LD 1 bad jt. Set pkr @ 6,955' KB. PT CIBP to 2,000 psig for 5". Held OK. Rel pkr. TOH w/32 jts 2-3/8" tbg. Set pkr @ 5,962' KB. Opened by-pass & loaded annulus w/120 bbls 2% KCl wtr. SDFN. 160 BLWTR.

# CROSS TIMBERS OPERATING COMPANY

SAN JUAN DISTRICT

WELL RESTORATION

Tuesday, February 22, 2000

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SCHWERDTFEGER A

WELL # 5E

RESERVOIR: GALLUP

CTOC FORECAST:

0 MCFPD

JOB TYPE: OAP in the Gallup

05/12/1999 SITP 0 psig, SICP 0 psig. MIRU Dowell. Loaded tbg-csg annulus w/2% KCl wtr. Press up on TCA to 200 psig. Held OK. RU to swb. BFL 3,800' FS. S. 10 BLW in 1.5 hrs (4 runs). FFL 7,000' FS. Acidized GP perfs as follows: 10 bbls 15% HCl acid, 38 bbls 15% HCl acid w/1 - 1.3 spgr ball sealer per bbl, 10 bbls 15% HCl acid & 14 bbls 2% KCl wtr. Balled off @ 4,600 psig. SI for 5" (115 psig). Surged off balls. Ppd 6 bbls 2% KCL wtr (SI for 1" after each 2 bbls). Ppd 6 bbls 2% KCl wtr @ 6 BPM & 2,800 psig. SIP 1,100 psig, 5" SIP 181 psig, 10" SIP 121 psig & 15" SIP 60 psig. RDMO Dowell. Good ball action through out breakdown. Ppd total 26 bbls 15% HCl acid & 26 bbls 2% KCl wtr @ avg rate of 4.8 BPM & 3,600 psig. Released pkr. TIH w/32 jts tbg to 6,975' KB (knock balls off perfs). TOH w/220 jts 2-3/8" tbg, SN & Baker model "R" pkr. TIH w/Baker model "R" pkr, 2 jts 2-7/8", N-80 tbg, XO & 97 jts 3-1/2", N-80 tbg. Set pkr @ 3,128.11' KB (4-1/2" liner top 3,050' KB). Loaded tbg-csg annulus w/20 bbls 2% KCl wtr. Press up on TCA to 200 psig. SDFN. 256 BLWTR.

# CROSS TIMBERS OPERATING COMPANY

SAN JUAN DISTRICT

WELL RESTORATION

Tuesday, February 22, 2000

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SCHWERDTFEGER A

WELL # 5E

RESERVOIR: GALLUP

CTOC FORECAST:

118 MCFPD

JOB TYPE: OAP in the Gallup

05/13/1999 SITP 0 psig, SICP 0 psig. Installed Stinger 15,000 psig frac vlv. MIRU Dowell frac crew. PT frac lines to 6,500 psig. Frac'd Gallup perfs fr/6,111'-6,554' dwn 3-1/2" tbg as follows: 3,864 gals xlinked 19Q foam pre-pad, 20,020 gals xlinked 68Q foam pad, 7,980 gals xlinked 68Q foam @ 1 ppg (DH) sd, 9,310 gals xlinked 66Q foam @ 2 ppg (DH) sd, 8,377 gals xlinked 63Q foam @ 3 ppg (DH) sd, 8,190 gals xlinked 58Q foam @ 3.36 ppg (DH) sd & 4,888 gals xlinked 52Q foam @ 4 ppg (DH) sd. Well screened out on 4 ppg sd. Unable to flush well. ISIP 6,400 psig. AIR 30 BPM (foam, DH). ATP 4,354 psig. MaxTP 6,811 psig. Ppd a total of 22,062 gals 2% KCl wtr (w/20#/M J877 guar gel, 1#/M AP breaker, 1#/M EB-clean breaker, 3 gal/M F104 foamer, 1 gal/M W54 non-emulsifier & 5 gal/M J861 widefrac xlinker/buffer additive), 77,108# 20/40 mesh Brady sd (67,760# in fmt) & 980,700 scf nitrogen. SWI. RDMO Dowell frac crew. OWU to pit @ 1:10 p.m. FTP 3,875 psig, 3/4" ck. 2:00 p.m.: FTP 125 psig, 3/4" ck. SWI. Repr'd flowline. 3:00 p.m.: FTP 500 psig, 1/2" ck. 4:00 p.m.: FTP 385 psig, 1/2" ck. Turned well over to night watchman. 6:00 a.m.: (5/13/99) F. 80 BLW, FTP 385 psig, 1/4" ck w/trace of oil & gas. 526 BLWTR.

# CROSS TIMBERS OPERATING COMPANY

SAN JUAN DISTRICT

WELL RESTORATION

Tuesday, February 22, 2000

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**SCHWERDTFEGER A**

**WELL # 5E**

**RESERVOIR:** GALLUP

**CTOC FORECAST:**

**118 MCFPD**

**JOB TYPE:** OAP in the Gallup

05/14/1999 12:00 a.m.: FTP 460 psig, SICP 0 psig (pkr), 1/4" ck. 3:00 a.m.: FTP 420 psig, SICP 0 psig (pkr), 1/4" ck. 6:00 a.m.: FTP 380 psig, SICP 0 psig (pkr), 1/4" ck. Changed to 3/4" ck. 7:00 a.m.: FTP 5 psig, SICP 0 psig (pkr), 3/4" ck. 8:00 a.m.: FTP 55 psig, SICP 0 psig (pkr), 3/4" ck. Rec 125 BLW (205 BLW ttl). Killed well w/18 bbls 2% KCl wtr dwn tbg. Rel Baker model "R" pkr. TOH & LD 97 jts 3-1/2" tbg, XO, 2 jts 2-7/8" tbg & Baker model "R" pkr. TIH w/notched collar, SN & 212 jts 2-3/8" tbg. Tagged sd fill @ 6,734' KB. SDFN. 419 BLWTR.

05/15/1999 SITP 460 psig, SICP 180 psig. MIRU air/foam unit. Re-tallied tbg. Tbg tally incorrect. Tagged sd fill @ 6,532' KB (not 6,734' KB as originally reported). CO sd fill fr/6,532'-6,997' KB (CIBP @ 7,000' KB). Circ 3 hrs on btm w/air/foam. RDMO air/foam unit. TOH w/tbg, SN & notched collar. TIH w/mule shoe, SN & 192 jts 2-3/8", 4.7#, J-55, EUE, 8rd tbg. Landed EOT @ 6,101' KB. SN @ 6,100' KB. GP perfs fr/6,111'-6,554'. ND BOP. NU WH. SWIFPBU. 454 BLWTR.

Well: SCHWERTFEGER A No.: 005E

Operator: CROSS TIMBERS OPERATING COMPANY API: 3004524790

Township: 27N Range: 08W Section: 6 Unit: 1 Type: F

County: Sa Accumulated Oil: 1349(BBLS) Gas: 97229(MCF) Water: 310(BBLS) Days Produced:2548

Year:1993

Pool Name: BASIN DAKOTA (PRORATED GAS)

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Produced
January	17	1439	0	31
February	10	1527	0	28
March	6	1666	0	31
April	0	2092	0	30
May	17	1555	0	31
June	0	1581	0	30
July	0	1345	0	31
August	26	1619	0	31
September	7	1732	0	30
October	0	1914	0	31
November	0	1481	0	29
December	27	1693	0	31

Year:1994

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Produced
January	8	786	0	31
February	1	694	0	28
March	26	776	0	31
April	3	726	0	30
May	103	668	0	31
June	2	645	0	10
July	6	516	0	31
August	12	886	0	31
September	8	1301	0	30
October	3	1857	0	31
November	14	1626	0	30
December	12	1495	0	31

Year:1995

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Produced
January	5	1243	0	31
February	19	1145	0	28
March	10	1289	0	31
April	6	1185	0	30
May	7	1380	0	31
June	3	1339	0	26
July	4	1453	0	31
August	5	1422	0	31
September	5	1360	0	30
October	18	1290	0	31
November	2	1280	0	30

December	17	926	0	31
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Year:1996

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Produced
January	0	639	0	31
February	0	751	0	29
March	2	759	0	31
April	0	976	0	30
May	0	1625	0	31
June	18	1727	0	26
July	3	1583	0	31
August	5	1426	0	31
September	2	1078	0	30
October	4	1360	0	31
November	4	953	0	30
December	4	468	0	31

Year:1997

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Produced
January	1	746	0	31
February	2	914	0	28
March	0	967	0	31
April	0	867	0	30
May	0	794	0	31
June	0	280	0	30
July	0	173	0	31
August	0	483	0	31
September	0	1094	0	30
October	42	1133	0	31
November	0	1011	0	30
December	7	1220	0	31

Year:1998

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Produced
January	7	861	0	31
February	8	553	0	28
March	0	936	0	31
April	3	531	0	30
May	5	620	0	31
June	0	793	0	30
July	0	742	0	31
August	0	848	0	31
September	0	688	0	30
October	3	1818	0	31
November	0	1388	0	30
December	2	853	0	31

Year:1999

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Produced
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January	5	998	0	31
Feburary	0	953	0	28
March	0	541	40	31
April	0	736	0	30
May	0	266	0	8
June	0	0	0	0
July	0	0	0	0
August	29	336	20	31
September	24	1161	0	30
October	11	932	0	26
November	0	0	0	0
December	0	0	0	0

Pool Name:WILDCAT 27N8W6A;GALLUP (G)

Month	Oil(BBLS)	Gas(MCF)	Water(BBL)	Days Produced
January	0	0	0	0
Feburary	0	0	0	0
March	0	0	0	0
April	0	0	0	0
May	19	1616	0	23
June	251	1752	20	30
July	114	1405	80	31
August	111	824	150	31
September	177	2842	0	30
October	77	2277	0	26