District 1
 # (505) 393-6161

 1625 N. French Dr, Hobbs, NM 88240
 District II

 District II
 # (505) 748-1283

 1301 W. Grand Avenue, Artesia, NM 88210
 District III

 District III
 # (505) 334-6178

 1000 Rio Brazos Road, Aztec, NM 87410
 District IV

 District IV
 # (505) 476-3440

 1220 So. St. Francis Dr., Santa Fe, NM 87505

New Mexico Energy Minerals and Natural Resources Department

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 *H-05-00015* (505) 476-3440

Form C-140 Revised June 10, 2003

SUBMIT ORIGINAL PLUS 2 COPIES TO APPROPRIATE DISTRICT OFFICE

APPLICATION FOR WELL WORKOVER PROJECT

HENRY PETORLEUM LP 15453 3525 ANDREWS HIGHWAY, MIDLAND, TX 79703 155453 Contact Party Phone STATE Y Phone STATE Y Well Number STATE Y Section B 25 25 37E 990 N 2308 E LEA County 1Workover Previous Producing Pool(s) (Prior to Workover): FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR 05/02/2004 INJECTOR 11. Attach a description of the Workover reflecting a positive production prior to the workover and at least of the months of production prior to the workover and at least of the months of production prior to the workover and at least of the months of production following the workover reflecting a positive production increase. V. AFFIDAVIT: State of IEXAS State of IEXAS) State of IEXAS) Signature State 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 Intermediate and accurate. Title REGULATORY SPECIALIST Date 4- 11- 2005 E-mail Address shinley@henrypetroleum.com Title RE	I. Operator and Well				
155453 155453 Contact Party SHIRLEY HOUCHINS Vertice Mane STATE Y Well Number SHIRLEY HOUCHINS Well Number Vertice Mane Vertice Mane Vertice Mane Vertice Mane Vertice Mane Date Workover Date Workover Commenced: OPTIME Previous Producing Pool(s) (Prior to Workover): DATE Y D	Operator name & address	OGRID Number			
Contact Party Phone SHIRLEY HOUCHINS Veil Number Property Name Veil Number STATE Y 30-025-11773 UL, Section Township Range Feet From The North/South Line Feet From The 25S 37E 990 North/South Line Feet From The Date Workover LEA Date Workover Commenced: Previous Producing Pool(s) (Prior to Workover): FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & Dote Workover completed: INJECTOR Date Workover or table showing at least twelve months of production prior to the workover and at least of the workover reflecting a positive production increase. V. AFTEDAVIT: State of TEXAS 1.1 I am the Operator, or authorized representative of the Operator, of the above-referenced Welt 2.1 I am the Operator, or authorized representative of the production records reasonably available forthis 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 Notary Public Notary Public Notary Public Notary Public Ju&A&		(77.47			
SHIRLEY HOUCHINS Item (432)694-3000 Property Name Well Number STATE Y Well Number 3TATE Y Well Number 3TATE Y Section UL, Section Township Range Feet From The Pate Workover STATE Date Workover Previous Producing Pool(s) (Prior to Workover): FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR INJECTOR 05/02/2004 INJECTOR II. Attach a description of the Workover Procedures performed to increase production V. AfFEIDAVIT: State of IEXAS State of IEXAS jss. County of MIDLAND jss. County of MIDLAND jss. State of TEXAS jss. Vell. 1 1 Iam the Operator, or authorized representative of the operator, of the above-referenced Well 2. 1 have made, or caused to be made, a diligent search of the production records reasonably available fo		155453			
Property Name Well Number API Number STATE Y 30-025-11773 UL Section Township Range Feet From The Peet From The East/West Line Country B 25 25S 37E 990 N 2308 E LEA II. Workover Commenced. Optivious Producing Pool(s) (Prior to Workover): FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & Date Workover Completed INJECTOR FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & Date Workover Completed INJECTOR FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & UL Attach a description of the Workover Procedures performed to increase production. FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & UL Attach a production decline curve or table showing at least twelve months of production prior to the workover reflecting a positive production increase. FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & State of IEAS) S. Sconty of MIDLAND) State of IEAS) Sconty of MIDLAND) Sconty of MIDLAND) State of <td></td> <td></td>					
STATE Y 1 30-025-11773 UL Section Township Range Peet From The Peet From The East/West Line County I. Workover 2308 E LEA Date Workover Commenced: Options Producing Pool(s) (Prior to Workover); FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR Date Workover Commenced: Of/02/2004 FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR 05/02/2004 INJECTOR Of/02/2004 INJECTOR II. Attach a description of the Workover Procedures performed to increase production prior to the Workover and at least welve months of production prior to the Workover and at least welve months of production following the workover reflecting a positive production increase. V. AfFIDAVIT: State of IEXAS)ss. County of MIDLAND)ss. State of IEXAS 1. I am the Operator, or authorized representative of the Operator, of the above-referenced Welt Notary Public 2. Thave made, or caused to be made, a diligent search of the production records reasonably available for this Notary Public 3. 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. Date 4- II-2005 Signature <t< td=""><td>SHIRLEY HOUCHINS</td><td>(432)694-3000</td></t<>	SHIRLEY HOUCHINS	(432)694-3000			
UL Section Township Range Feet From The North/South Line Feet From The EastWest Line County B 25 25S 37E 990 N 2308 E LEA Date Workover Previous Producing Pool(s) (Prior to Workover): 04/17/2004 LEA LEA Date Workover Commenced: OPENDENT SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR 05/02/2004 II. Attach a description of the Workover Procedures performed to increase production. INJECTOR V. Attach a description of the Workover Procedures performed to increase production nerease. Image: South Former					
B 25 25 37E 990 N 2308 E LEA II. Workover Date Workover Commenced. Previous Producing Pool(s) (Prior to Workover): FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR 05/02/2004 FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR 05/02/2004 III. Attach a description of the Workover Procedures performed to increase production. FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR 05/02/2004 III. Attach a description of the Workover Procedures performed to increase production prior to the workover and at least there months of production following the workover reflecting a positive production necrease. FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR V. AFFIDAVIT: State of IEEXAS) Ss. Ss. County of MIDLAND) Ss. Ss. State of the operator, or authorized representative of the Operator, of the above-referenced Welf State of the workover and at least Well 2. 1 have made, or caused to be made, a diligent search of the production records reasonably available forthis Well 3. To the best					
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Date Workover Commenced: 04/17/2004 Previous Producing Pool(s) (Prior to Workover): FORMERLY SOUTH JUSTIS UNIT G-230, JUSTIS BLINRBRY, TUBB, DRINKARD PRODUCER & INJECTOR INJECTOR					
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 Attach a production decline curve or table showing at least twelve months of production prior to the varkover and at least three months of production following the workover reflecting a positive production increase. State of <u>TEXAS</u>) ss. County of <u>MIDLAND</u>) states: I are the Operator, or authorized representative of the Operator, of the above-referenced Well and the operator, or 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 <u>Houthins</u> Title <u>REGULATORY SPECIALIST</u> Date <u>4-11-2005</u> E-mail Address shirley@henrypetroleum.com SUBSCRIBED AND SWORN TO before me this <u>Ham</u> day of <u>Opril</u>, 2005. Notary Public, State of Texas My Commission Expires Notary Public My Commentation Division USE ONLY: 		1-1234			
State of <u>LEARS</u>) ss. County of <u>MIDLAND</u>) SHIRLEY HOUCHINS, being first duly sworn, upon oath states: 1. I am the Operator, or authorized representative of the Operator, of the above-referenced Well <i>Learner</i> (1997) 2. I have made, or caused to be made, a diligent search of the production records reasonably available for this Well. 3. 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 <u>hulay Butchino</u> E-mail Address shirley@henrypetroleum.com SUBSCRIBED AND SWORN TO before me this <u>II</u> day of <u>April</u> , 2005. My Comment My Commission Expires Notary Public, State of Texas My Commission Expires October 14, 2006 OR OIL CONSERVATION DIVISION USE ONLY:	III. Attach a description of the Workover Procedures performed to increa	se production.			
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Well. 3. 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 <u>huly Houchins</u> Title <u>REGULATORY SPECIALIST</u> Date <u>4-11-2005</u> E-mail Address <u>shirley@henrypetroleum.com</u> SUBSCRIBED AND SWORN TO before me this <u>II</u> day of <u>April</u> , 20 <u>05</u> . HEATHER KRISTIN FARRIS My Commission Expires My Commission Expires October 14, 2006 Notary Public <i>ILeather K. Jamis</i> OR OIL CONSERVATION DIVISION USE ONLY:	1. I am the Operator, or authorized representative of the Ope	s.			
Well. 3. 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 <u>hulu</u> <u>houchino</u> <u>Title <u>REGULATORY SPECIALIST</u> Date <u>4-11-2005</u> E-mail Address <u>shirley@henrypetroleum.com</u> SUBSCRIBED AND SWORN TO before me this <u>II</u>th day of <u>April</u>, 20<u>05</u>. HEATHER KRISTIN FARRIS My Commension Expires <u>October 14, 2006</u> Notary Public Ideather K. Jamis OR OIL CONSERVATION DIVISION USE ONLY:</u>	2. I have made, or caused to be made, a diligent search of the	e production records reasonably available for this			
for this Well are complete and accurate. Signature <u>huley Houchins</u> Title <u>REGULATORY SPECIALIST</u> Date <u>4-11-2005</u> E-mail Address <u>shirley@henrypetroleum.com</u> SUBSCRIBED AND SWORN TO before me this <u>II</u> day of <u>April</u> , 20 <u>05</u> . <u>HEATHER KRISTIN FARRIS</u> Notary Public, State of Texas My Commission Expires: <u>October 14, 2006</u> My Commission Expires: <u>October 14, 2006</u> Notary Public I Leather K. Jamis	Well.	production records reasonably available-tor_tins			
for this Well are complete and accurate. Signature <u>huley Houchins</u> Title <u>REGULATORY SPECIALIST</u> Date <u>4-11-2005</u> E-mail Address <u>shirley@henrypetroleum.com</u> SUBSCRIBED AND SWORN TO before me this <u>II</u> day of <u>April</u> , 20 <u>05</u> . <u>HEATHER KRISTIN FARRIS</u> Notary Public, State of Texas My Commission Expires: <u>October 14, 2006</u> My Commission Expires: <u>October 14, 2006</u> Notary Public I Leather K. Jamis	3. To the best of my knowledge, this application and the data used to prepare the production curve and/or table				
Signature Juley Houchins Title REGULATORY SPECIALIST Date 4-11-2005 E-mail Address shirley@henrypetroleum.com SUBSCRIBED AND SWORN TO before me this Immediate of the second	for this Well are complete and accurate.				
E-mail Address shirley@henrypetroleum.com SUBSCRIBED AND SWORN TO before me this day of <u>Opril</u> , 20 <u>05</u> . HEATHER KRISTIN FARRIS Notary Public, State of Texas My Commission Expires October 14, 2006 I deather K. Jawis OR OIL CONSERVATION DIVISION USE ONLY:					
SUBSCRIBED AND SWORN TO before me this day of <u>Upril</u> , 20 <u>05</u> . HEATHER KRISTIN FARRIS Notary Public, State of Texas My Commission Expires: October 14, 2006 OR OIL CONSERVATION DIVISION USE ONLY:	Signature July Houch no Title REGULATO	DRY SPECIALIST Date 4-11-2005			
SUBSCRIBED AND SWORN TO before me this day of <u>Upril</u> , 20 <u>05</u> . HEATHER KRISTIN FARRIS Notary Public, State of Texas My Commission Expires: October 14, 2006 OR OIL CONSERVATION DIVISION USE ONLY:	E-mail Address shirley@henrypetroleum.com				
My Commentation Division Use ONLY:	SUBSCRIBED AND SWORN TO before me this the day of UD	ril 20.05			
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My Commission Expires: Notary Public My Commission Expires: October 14, 2006 OR OIL CONSERVATION DIVISION USE ONLY:					
OR OIL CONSERVATION DIVISION USE ONLY:	My Commission Expires Notary Public	c			
OR OIL CONSERVATION DIVISION USE ONLY:	My Commusiverspires: October 14, 2006	CIP K1.			
		ather K. Jamis			
	OR OIL CONSERVATION DIVISION LISE ONLY.				
(I. UENTIENATRINUE APPKIIVAL'	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 $\frac{1}{2} \left(\frac{1}{2} \right)^2$, $20 \frac{23}{2}$.

Signature District Supervisor	OCD District	Date
Manty	l	4/14/05

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

SOUTH JUSTIS UNIT "G" #230

LOCATION		990' FNI & 23		EC. 25, T-25S, R-37E			
		LEA COUNTY					
FORMER (OPERATOR:						
		STATE "Y" #5					
	CT NUMBER:	•	PI NUMBER:	3002511773			
SPUD DA1				0002011770			
	: 3075'	GL:	TD: <u>6872'</u>	PBTD: <u>6789'</u>			
CASING R							
Size	Wt	Grade	Depth	Cementing Record			
13-3/8"		H-40	600'	600 sxs cmt, circ			
9-5/8"	36/32/3	H-40	3329'	900 sxs cmt,			
				(TOC @ 685 - TS)			
7"	20/23/26	J-55/N-80	6871'	430 sxs cmt ,			
(TOC @	🕑 3175' - TS)		·	· · · · · · · · · · · · · · · · · · ·			
LOGS:							
Date	<u>c</u>	Company	Log Nan	ne			
2/25/59		Schlumberger	GR-N, M				
<u>DST's:</u>							
	5-6822	Fusselman	Op. 1', Gas	5", Oil 16"; F. 10 BO 44", RO 15			
BO,			RBS 90' o	il, no water; FP 535-2025; SI			
30"/2025							
INITIAL CO	OMPLETION:			, perfs 6798-6838'			
			MA/1000, perf	IP 183 BOPD, MA/1000, perfs 5870-96'			
TREATME							
	NTS AND WO						
01/62	Perf'd 5732	2-46, 60-84, 5795					
	Perf'd 5732 Squeezed	2-46, 60-84, 5795 all perfs in Drink	kard & Fusselr	nan, fuss model D pkr @ 6825',			
01/62 07/76	Perf'd 5732 Squeezed cmt ret @ 6	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs b	kard & Fusselr elow & clean o	ut to 6789'			
01/62	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs b 5-6780' (Fuss), a	kard & Fusselr elow & clean o icid spot 100 g	nan, fuss model D pkr @ 6825', ut to 6789' al acetic + 500 gal 15% HCL, IP			
01/62 07/76 07/76	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs b 5-6780' (Fuss), a (swbg) Est. WO(kard & Fusselr elow & clean o icid spot 100 g C @ 3730'	ut to 6789' al acetic + 500 gal 15% HCL, IP			
01/62 07/76 07/76 08/86	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 15	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs b 5-6780' (Fuss), a (swbg) Est. WO(5% acid before a	kard & Fusselr elow & clean o cid spot 100 g C @ 3730' cid 12 BO after	ut to 6789' al acetic + 500 gal 15% HCL, IP acid 18 BO.			
01/62 07/76 07/76	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 15 Set CIBP	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs b 5-6780' (Fuss), a (swbg) Est. WO(5% acid before a @ 6100' and d	kard & Fusselr elow & clean o cid spot 100 g C @ 3730' cid 12 BO after umped 35' cn	ut to 6789' al acetic + 500 gal 15% HCL, IP acid 18 BO. nt on top - new PBD = 6065'.			
01/62 07/76 07/76 08/86	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 19 Set CIBP Pressure t	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs bo 5-6780' (Fuss), a (swbg) Est. WO 5% acid before a @ 6100' and d sested 7" casing	kard & Fusselr elow & clean o cid spot 100 g C @ 3730' cid 12 BO after umped 35' cn from 5041-se	ut to 6789' al acetic + 500 gal 15% HCL, IP acid 18 BO. nt on top new PBD = 6065'. urface to 500#. Perf Blinebry-			
01/62 07/76 07/76 08/86	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 19 Set CIBP Pressure t Tubb/Drink	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs b 5-6780' (Fuss), a (swbg) Est. WO(5% acid before a @ 6100' and d cested 7" casing card from 5082'-5	kard & Fusselr elow & clean o cid spot 100 g C @ 3730' cid 12 BO after umped 35' cm from 5041-si 978' (76' @ 2 3	ut to 6789' al acetic + 500 gal 15% HCL, IP acid 18 BO. at on top new PBD = 6065'. urface to 500#. Perf Blinebry- SPF - 152 perfs). Acidized 5082'-			
01/62 07/76 07/76 08/86	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 15 Set CIBP Pressure t Tubb/Drink 5978' in 3	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs be 5-6780' (Fuss), a (swbg) Est. WO 5% acid before a @ 6100' and d sested 7" casing ard from 5082'-5 stages 5082'-	kard & Fusselr elow & clean o icid spot 100 g C @ 3730' cid 12 BO after umped 35' cn from 5041-si 978' (76' @ 2 3 5281' w/4,200	ut to 6789' al acetic + 500 gal 15% HCL, IP acid 18 BO. nt on top new PBD = 6065'. urface to 500#. Perf Blinebry-			
01/62 07/76 07/76 08/86 11/93	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 19 Set CIBP Pressure t Tubb/Drink 5978' in 3 and 5640'-4	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs be 5-6780' (Fuss), a (swbg) Est. WO 5% acid before a @ 6100' and d ested 7" casing ard from 5082'-5 stages 5082'- 5978' w/4,400 ga	kard & Fusselr elow & clean o cid spot 100 g C @ 3730' cid 12 BO after umped 35' cn from 5041-su 978' (76' @ 2 3 5281' w/4,200 ls.	ut to 6789' al acetic + 500 gal 15% HCL, IP acid 18 BO. at on top new PBD = 6065'. urface to 500#. Perf Blinebry- SPF - 152 perfs). Acidized 5082'-			
01/62 07/76 07/76 08/86 11/93	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 19 Set CIBP Pressure t Tubb/Drink 5978' in 3 and 5640'-9 Set injectio	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs b 5-6780' (Fuss), a (swbg) Est. WO(5% acid before a @ 6100' and d ested 7" casing ard from 5082'-5 stages 5082'- 5978' w/4,400 ga in tubing and pac	kard & Fusselr elow & clean o cid spot 100 g C @ 3730' cid 12 BO after umped 35' cm from 5041-si 978' (76' @ 2 3 5281' w/4,200 ls. ker @ 5015'.	ut to 6789' al acetic + 500 gal 15% HCL, IP r acid 18 BO. nt on top new PBD = 6065'. urface to 500#. Perf Blinebry- SPF - 152 perfs). Acidized 5082'- gals; 5306'-5622' w/6,600 gals;			
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01/62 07/76 07/76 08/86 11/93	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 19 Set CIBP Pressure t Tubb/Drink 5978' in 3 and 5640'-4 Set injectio Set CIBP @ SPF = 54 h (4969'-553	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs b 5-6780' (Fuss), a (swbg) Est. WO(5% acid before a @ 6100' and d ested 7" casing ard from 5082'-5 stages 5082'- 5978' w/4,400 ga in tubing and pac © 5546'. Add Blin holes). Acidize ne 1') with 3600 gal	kard & Fusselr elow & clean o icid spot 100 g C @ 3730' cid 12 BO after umped 35' cn from 5041-su 978' (76' @ 2 3 5281' w/4,200 ls. ker @ 5015'. nebry perfs from ew and existing	ut to 6789' al acetic + 500 gal 15% HCL, IP r acid 18 BO. nt on top new PBD = 6065'. urface to 500#. Perf Blinebry- SPF - 152 perfs). Acidized 5082'- gals; 5306'-5622' w/6,600 gals; m 4969'-5061' (27 selections @ 2			
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01/62 07/76 07/76 08/86 11/93 12/93 9/97	Perf'd 5732 Squeezed cmt ret @ 6 Perf'd 6766 100 BOPD 1000 gal 19 Set CIBP Pressure t Tubb/Drink 5978' in 3 and 5640'-4 Set injectio Set CIBP (SPF = 54 h (4969'-553 for diversio	2-46, 60-84, 5795 all perfs in Drink 5789' sqz perfs be 5-6780' (Fuss), a (swbg) Est. WO 5% acid before an @ 6100' and d sested 7" casing ard from 5082'-5 stages 5082'- 5978' w/4,400 ga in tubing and pac @ 5546'. Add Blin noles). Acidize ne 1') with 3600 gal on. @ 5430' to stop cl	kard & Fusselr elow & clean o icid spot 100 g C @ 3730' cid 12 BO after umped 35' cn from 5041-si 978' (76' @ 2 3 5281' w/4,200 ls. ker @ 5015'. nebry perfs fro ew and existing lons of 15% N	ut to 6789' al acetic + 500 gal 15% HCL, IP r acid 18 BO. nt on top new PBD = 6065'. urface to 500#. Perf Blinebry- SPF - 152 perfs). Acidized 5082'- gals; 5306'-5622' w/6,600 gals; m 4969'-5061' (27 selections @ 2 perfs located above CIBP			

2-2004 Workover Procedure

- 1. Obtain regulatory C-103 approval to convert this well back to a Fusselman producer from a unit producer. Also, obtain WI owner permission to take wellbore out of the unit for P&A costs.
- 2. MIRU PU. POOH with rods and pump. ND WH. Release TAC. NU BOP. POOH with tubing.
- PU & strap in the hole with 2 3/8' L-80 tubing (for running liner because of extra weight), 4 ½" drill collars and 6 1/8" cone buster mill. TIH to 5430' and drill out CIBP, TIH to 5546' and drill out CIBP, TIH to 6065 and drill out cement and CIBP (watch for pressure since the Fusselman was last produced in 1993). TIH to old PBTD of 6789'.
- 4. POOH with bit and PU scraper, make bit and scraper run to PBTD of 6789' this is important to ensure good scab liner packer setting in old 7" casing. Be sure to reverse circulate the hole clean.
- 5. POOH with bit and scraper, TIH with tubing and acidizing packer and RBP to 6789' and set the RBP below the Fusselman perfs (6766-6780') then set the packer at 6740' and acidize the Fusselman perfs with 1000 gal 15% NEFE HCL at 1-2 BPM, 23 bbls and flush (they squeezed lower perfs to eliminate water production in 1976 & offsets produce high water volumes), do not exceed 1000 psi. Flush acid to top perf with (2 3/8" tubing vol = .00387 bbl/ft, 7" casing vol = .0393 bbl/ft) 25 bbls produced water with bactericide mixed in. Perform acid sludge testing using a sample of the Arnot Ramsay F #8 Fusselman oil prior to mixing acid. Ramsay #8 treated on a vacuum 2-6-04.
- 6. Swab load back. Report results on morning report.
- Release packer & TIH to PU RBP, POOH to ~ 6620' and set RBP, POOH to 6570' and set packer. Pressure test lower scab liner packer seat interval to 500 psi. POOH with RBP & packer to 4820', set packer and test backside to 500 psi for upper packer casing integrity test. POOH with RBP & packer.
- Place well on pump below a packer with the following rod design for ~ 160 + BFPD using the 640 PU currently on the SJU G-230, design has rod loading of 93%, PU loading of 81%:

100	7/8" X 25' D rods	2500.00'
170	3/4" X 25' D rods	4250.00'
	2" X 1-1/2" X 20' pump	20.00'
		6770.00'

- 9. Set 7" packer @ ~ 6700'. Production test for 2 weeks reporting results to the office.
- 10. Set 7" TAC @ ~ 6755' in 7" casing using 15 points to set it, with SS on/off tool directly above TAC and SN @ ~ 6750'. Get off of on/off tool and POOH.
- 11. RU to run scab liner. PU scab liner packer (SLP) assembly consisting of the following:
 - Muleshoe sub
 - Nickel-plated lower packer with 4-1/2 LTC box looking up
 - ±1800' of 4-1/2" J-55 11.6 ppf LTC scab liner w/ Ryt-wrap on OD (verify Ryt-Wrap has cured @ least 1 week before running)
 - Nickel-plated upper packer with 4-1/2" LTC pin looking down

NOTES:

Verify both packer assemblies, and muleshoe drift 3.875".

SOUTH JUSTIS UNIT "G" #230

- Drift the 4-1/2" 11.6 ppf LTC J-55 scab liner to 3.875".
- Use Ryt-Wrap touch-up kit to repair any damaged or missing coating on the liner OD.
- Use Best-o-Life 2000 API modified pipe dope on all connections.
- Have proper handling tools on location to reduce the risk of damaging pipe threads and/or pipe body. Have catwalk on location and pipe rack padded to minimize damage to Ryt-Wrapped pipe.
- Calibrate tongs before running liner to ensure proper make-up torque.
- Optimum make-up torque for 4-1/2" 11.6 ppf J-55 is 1620 ft-lbs, Max is 2025 ft-lbs.
- > Witness the unloading of the liner from the truck to the pipe racks to insure the liner is properly handled.
- 12. PU SLP running tool. Verify with Weatherford representative that the running tool has an O-ring sub to test the top packer after it is set. RIH with SLP assembly, twelve (12) 4-1/2" DC, and 2-3/8" L-80 workstring. Locate top packer at ±4800' and bottom packer at ±6600'. The bottom packer must be set between 6581' and 6613' between collars using the 2-27-59 Worth Well Surveys "Simultaneous Radioactivity Log" with collars. This bottom packer set depth interval should allow the top set depth to be between collars from 4780' and 4811'. NOTE: Limit running speed while RIH with SLP assembly as packers set in compression. If the SLP un-Jays at any time going in the hole, PU on the running string and rotate ¼ to ½ turn to the left to re-Jay, being careful not to release the running tool.
- 13. Set the packer by rotating the running string to the right 1/4 turn at the packer while in neutral weight to un-Jay the slips. SO to set lower packer. Continue to SO to set upper packer. At least 18 20 kips compression are required to fully energize the packing elements. Test the backside to 500 psi to verify the top packer is set.
- 14. After energizing the packers, PU to neutral weight at the top packer. Work left-hand torque to the running tool to release it from the SLP. POOH and LD DC and running tool. NOTE: Do not pull tension in the SLP system any time after it is set. This could move the packers uphole and roll the packing elements.
- 15. Place well on pump with the following rod design for ~ 160 + BFPD using the 640 PU currently on the SJU G-230, design has rod loading of 93%, PU loading of 81%:

7/8" X 25' D rods	2500.00'
3/4" X 25' D rods	4250.00'
2" X 1-1/2" X 20' pump	
	6770.00'
	3/4" X 25' D rods

16. Place well on production, test, shoot a fap and run a dyno as soon as possible.

DGB 2-9-04
<u>Approvals</u>
Engineering
Operations

File:S:\Document\Dbarrett\Excel\SJU\Fusselman\G230FussRecproc.doc

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