

1025 N. French Dr
Hobbs, NM 88240
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
2040 S. Pacheco
Santa Fe, NM 87505

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 06/99

SUBMIT ORIGINAL
PLUS 2 COPIES
TO APPROPRIATE
DISTRICT OFFICE

APPLICATION FOR
WELL WORKOVER PROJECT

H-0680

I. Operator and Well

Operator name & address Conoco Inc. P.O. Box 1267 Ponca City, OK 74602						OGRID Number 005073 Conoco Cmpl 1895291 Conoco Cmpl 1895292 Conoco Cmpl 1895294			
Contact Party Steve Keim						Phone 580-767-5098			
Property Name State A 2						Well Number 4		API Number 30-025-31307	
UL J	Section 2	Township 25 S	Range 37E	Feet From The 1980	North/South Line South	Feet From The 1980	East/West Line East	County Lea	

II. Workover

Date Workover Commenced: 10/10/01	Previous Producing Pool(s) (Prior to Workover): Justis;Blinebry and Justis;Tubb Drinkard
Date Workover Completed: 10/19/01	

III. Attach a description of the Workover Procedures performed to increase production. **Scan tubing, clean out, acidize, change pump size; see attached.**

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. **Data tabulation attached.**

V. AFFIDAVIT

State of Oklahoma)
County of Kay) ss.
Steve Keim, 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 [Signature] Title Sr. Staff Analyst Date 8/2/02

SUBSCRIBED AND SWORN TO before me this 14th day of August, 2002.

My Commission expires: January 2, 2006

Notary Public Lois Thornton
Commission # 01020120

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 10/19/01.

Signature District Supervisor <u>[Signature]</u>	OCD District <u>1</u>	Date <u>8/21/02</u>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT:

30025313070000

5/22/2002

STATE A-2 #04 (SLB 5/4/98)

API No.	30025313070000
Spud	7/26/1991
Completion	10/16/1991
Abandoned	
Frm. Prod.	BLINEBRY/TUBB/DRINKARD/ABO
Well No.	4
Field	JUSTIS
Init. Well Class.	development well
Status	OIL
Permit	
RR	
Last Act.	
TD	6910.0 ftKB
PBTD	6860.0 ftKB
Operator	CONOCO INC
Permit No.	
District	Hobbs O.U.
Final Well Class.	oil well
Frm. at TD	452ABO L

Elevations

KB-Grd	16.4 ft
Grd	3145.6 ft
Tub Head	0.0 ft
KB	3162.0 ft
Cas Flng	0.0 ft

Bore Hole Data

Size (in)	Depth (ftKB)
17.5000	355.0
12.2500	4600.0
8.7500	6910.0

Casing String - Surface Casing

Grd	Item (in)	Btm (ftKB)	Comments	ID	Thd	Jnts	Wt
K-55	13.0000 in Casing	353.0		12.2200	LTC	8	54.00

Casing String - Intermediate Casing

Grd	Item (in)	Btm (ftKB)	Comments	ID	Thd	Jnts	Wt
K-55	9.6300 in Casing	4600.0		8.8300	LTC	109	40.00
K-55	9.6300 in Float Collar	4600.0		8.8300	LTC	1	40.00

Casing String - Production Casing

Grd	Item (in)	Btm (ftKB)	Comments	ID	Thd	Jnts	Wt
K-55	7.0000 in Casing	6910.0		6.2800	LTC	162	26.00
K-55	7.0000 in Stage Tool	5013.0		6.2800	LTC	1	26.00
K-55	7.0000 in Float Collar	6910.0		6.2800	LTC	1	26.00

Casing Cement

Amount (sx)	Comments	Casing String	Top (ftKB)
370	Cmt circ	Surface Casing	0.0
1850	Cmt circ	Intermediate Casing	0.0
900	TOC by TS. DV @ 5003. 1st stg 750 sx, 2nd stg 150 sx.	Production Casing	3000.0

Perforations

Int	Shots (/ft)	Comments	Type	Date
6595.0 - 6646.0	3.3	@ 6595, 99, 6620-27, 6639, 53, 70, 6708, 6714-22, 6742-50, 68, 6786-90, 6801, 6838-46.		9/11/1991
6306.0 - 6562.0	6.6	@ 6306, 13, 20, 37, 47, 57, 72, 97, 6409, 29, 48, 53, 90, 6508, 6511-13, 6517-19, 6526, 42, 46 & 6562		9/18/1991
5780.0 - 6158.0	3.3	@ 5780, 98, 5868, 75, 84, 5914, 23, 37, 46, 60, 68, 76, 82, 89, 96, 6004, 17, 24, 36, 46, 56, 73, 80, 6104, 12, 20, 33, 37, 53 & 6158		10/8/1991
4840.0 - 4990.0	13.1	Sqz perms		11/4/1992
5084.0 - 5428.0	3.3	@ 5084, 88, 92, 96, 5101, 06, 11, 16, 21, 43, 47, 51, 60, 63, 65, 75, 89, 97, 5211, 30, 36, 38, 43, 63, 66, 83, 85, 94, 5424, 26, & 5428		11/10/1992
6622.0 - 6753.0	3.3	@ 6622, 26, 39, 45, 52, 53, 62, 70, 6714, 18, 22, 24, 42, 44, 46, 48, 50 & 6753		4/17/1995

Stimulations & Treatments								
Int	Zone	Comments	Type	Date	Fluid			
6595.0 - 6846.0	Abo	Pmp 60 bbls 15% HCl @ 6 bpm. Drop 12 BS every 10 bbls. BO w/12 bbls acid remaining. Pmp remaining acid @ 3 bpm, 2,400#. ATP=2,300#, ISIP=800#	Acid Squeeze	9/12/1991	15% HCl			
6306.0 - 6562.0	Abo	Pmp 60 bbls 15% NEFE HCl @ 6 bpm w/72 BS. Max press=1,500#, Avg=1,450#, ISIP=700#. Very little ball action. No ball out.	Acid Squeeze	9/20/1991	15% NEFE HCl			
5780.0 - 6158.0	Drinkard/Tut	Pmp dummy frac as follows: 238 bbls base gel tagged w/RAM (log showed good coverage on entire perforated interval). Pmp a total load of 1447 bbls frac fluid & 94,000# sand, 71,000# 16/30 Ottawa & 23,000# 16/30 RCS. Max press=1,500#, Min Press=800#, ATP=1,000# @ 31 bpm, ISIP=720#	Fracture	10/9/1991	Water			
4693.0 - 4990.0	Production Casing	Pmp 75 sx Class "C" cmt. Max pressure 800#	Cement Squeeze	11/5/1992	Class "C" Cement			
5084.0 - 5428.0	Blinebry	Pickle W.S. w/500 G 3% HCL-NEFE. Break down Blinebry perms as per procedure. Avg press=3,100#	Acid Squeeze	11/11/1992	15% HCL			
5084.0 - 5428.0	Blinebry	Pmp 119 bbl pre-pad, 571 bbl pad, 71 bbl w/2#/G 16/30 Ottawa, 71 bbl 4#/G, 71 bbl 6#/G, 83 bbl 8#/G, 97bbl 10#/G, 23 bbl 12#/G. Flush w/46 bbl. ATP=4,000# @ 35 bpm, ISIP=815#	Fracture	11/12/1992	Water			
6526.0 - 6846.0	Production Casing	Set cmt ret @ 6536, sqz perms w/50 sx cmt. Spot 1 bbl cmt on top of retainer. DO retainer & cmt to 6580.	Cement Squeeze	4/11/1995	Cement			
6622.0 - 6753.0	ABO	Acidz w/3,500 G 15% HCL w/inflow 150 & foamer. Dropped 49 BS. ATP=950# @ 4 bpm, ISIP=700#	Acid Squeeze	4/18/1995	15% HCL			
5084.0 - 5428.0	Blinebry	Acidz w/1,500 G 15% HCL-NE w/2 GpT InFlo 150 & foamer. Flush to perms. Avg rate 3.5 bpm @ 0#	Acid Squeeze	4/27/1995	15% HCL			
5780.0 - 6158.0	Drinkard/Tut	Acidz w/1,500 G 15% HCL-NE w/2 GpT InFlo 150 & foamer. Flush to perms. Avg rate 3.5 bpm @ 0#	Acid Squeeze	4/27/1995	15% HCL			
Tubing String - Primary Tubing								
Grd	Item (in)	Comments	ID (in)	Thd	Jnts	Len (ft)	Top (ftKB)	Wt
Buttress	2.3740 in Tubing		1.9961	8rd	155	4980.0	0.0	4.70
	6.5000 in Tubing Anchor		2.5000		1	10.0	4980.0	0.00
Buttress	2.3740 in Tubing		1.9961	8rd	58	1763.0	4990.0	4.70
	2.3740 in Seating Nipple		1.7800		1	1.0	6753.0	0.00
Bttress	2.8740 in Tubing		2.4409	8rd	1	30.0	6754.0	6.40
Rod String - Tapered Rod String								
Type	Comments	Size (in)	No.	Len (ft)	Top (ftKB)			
Polish Rod		1.5000	1	22.0	0.0			
7/8" Rod Subs		0.8750	3	10.0	22.0			
7/8" Rod		0.8750	84	2101.0	32.0			
3/4" Rod		0.7500	181	4525.0	2133.0			
K-Bar		1.5000	3	75.0	6658.0			
20-125-RHBC-1 Pump		2.0000	1	20.0	6733.0			
Dip Tube		1.0000	1	10.0	6753.0			
Completions & Workovers								
Reason for Workover	Reason for Failure	Date	Summary					
Commingle	Change Prod. Assembly	8/3/1995	Commingle - Hot oil well & POOH w/rods. POOH w/tbg, 156 jts to tbg anchor & 16 jts of tail pipe. RIH w/retrieving head & tagged @ 6283. POOH w/RBP, RBIH w/prod equipment.					
Pump Change	Clean Out Fill	7/25/1997	Pump Change - Jarred on pmp wouldn't come loose. Backed rods off. POOH w/tbg to fluid level. Swab tbg down, couldn't get pmp out of jt. 2 1/2" SOPMA was in bad condition. TFF @ 6834, CO to 6844. Last jt. had scale inside. Hot water tbg, RIH w/pmp & rods, RTP					

HOBBS_PE_PA8 ST A-2 #4 Summary Well Date: Oct. 1991-Apr. 2002

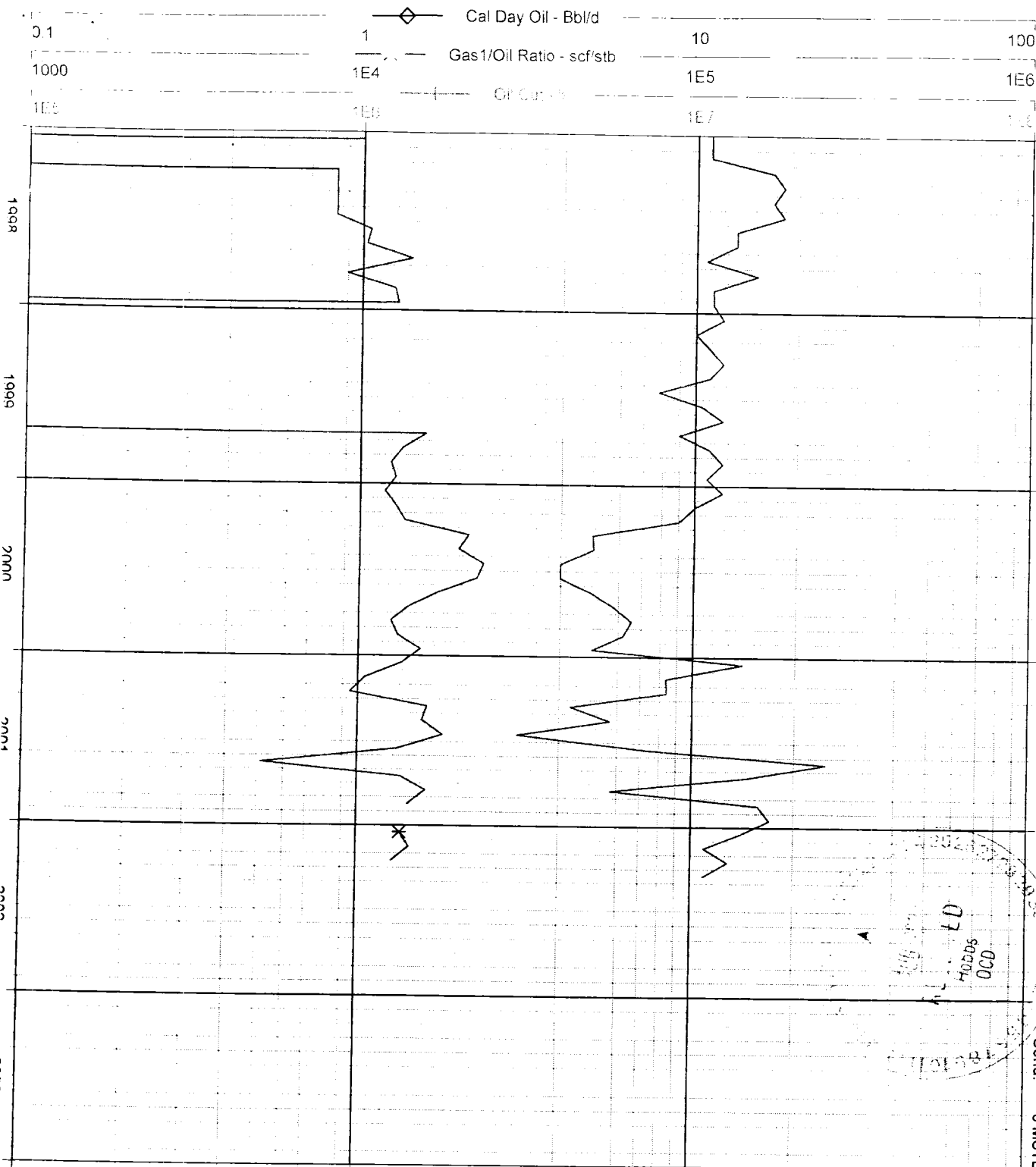
Operator: CONOCO INC
 Field:
 Zone:
 Type: Summary
 Group: Well: HOBBS PE PA8 ST A-2 #4

No
 Active
 Forecast

Production Cums
 Oil: 64,3502 MSTB
 Gas: 632,613 MMSCF
 Water: 68,328 MSTB
 Cond: 0 MSTB

—◇— Cal Day Oil - Bbl/d
 Cum: 64,3502 MSTB
 —*— Gas1/Oil Ratio - scf/stb
 Cum: 632,613 MMSCF
 —+— Oil Cut - %
 Cum: 0

API# 300253130 7000



Well Summary Report
Well Time Graph Report

Date	WI		WI	
	Day Oil	Gas/Oil Ratio	Oil Cut	Oil Cut
	Bbl/d	scf/stb	%	%
1998 01	11.00	10,000.00	40.79	
1998 02	11.00	0.00	40.85	
1998 03	16.77	8,336.54	52.90	
1998 04	18.00	8,333.33	52.94	
1998 05	16.77	8,336.54	52.90	
1998 06	18.00	8,333.33	52.94	
1998 07	13.10	10,551.72	41.13	
1998 08	13.10	10,285.71	39.11	
1998 09	10.70	14,018.69	37.28	
1998 10	15.06	8,993.58	48.95	
1998 11	11.20	12,500.00	40.83	
1998 12	11.23	12,827.59	40.85	
1999 01	12.00	0.00	40.83	
1999 02	10.00	0.00	38.46	
1999 03	11.00	0.00	37.89	
1999 04	12.00	0.00	40.82	
1999 05	11.00	0.00	38.71	
1999 06	7.80	0.00	34.98	
1999 07	10.45	0.00	40.81	
1999 08	12.00	0.00	40.83	
1999 09	9.00	15,618.52	36.00	
1999 10	11.00	13,363.64	42.36	
1999 11	12.00	12,313.89	46.09	
1999 12	10.84	12,735.12	46.09	
2000 01	12.00	11,838.71	42.91	
2000 02	10.00	12,779.31	38.46	
2000 03	9.00	13,577.06	35.95	
2000 04	5.00	21,033.33	35.71	
2000 05	5.03	19,673.08	35.70	
2000 06	4.00	23,350.00	30.77	
2000 07	4.00	22,306.45	33.33	
2000 08	4.97	17,168.83	35.73	
2000 09	5.80	14,109.20	42.96	
2000 10	6.57	12,460.09	45.09	
2000 11	6.20	13,066.14	43.68	
2000 12	5.01	15,270.81	38.53	
2001 01	13.97	13,454.34	63.58	
2001 02	8.37	10,471.76	51.14	
2001 03	8.39	9,460.29	51.19	
2001 04	4.33	16,005.23	35.14	
2001 05	5.70	15,519.58	43.23	
2001 06	2.98	17,839.17	29.28	
2001 07	7.29	13,143.92	47.67	
2001 08	24.95	5,155.29	75.72	
2001 09	14.43	13,454.34	63.58	
2001 10	5.75	15,956.60	41.83	
2001 11	15.72	14,140.64	66.28	
2001 12	16.96	--	67.95	
2002 01	13.97	13,454.34	63.58	
2002 02	10.94	14,337.49	57.76	
2002 03	12.81	12,749.57	61.56	
2002 04	10.92	--	61.16	
2002 05	--	--	--	
2002 06	--	--	--	
2002 07	--	--	--	

LD
Hobbs
OCD

Well: HOBBS_PE_PA8 ST A-2 #4 Summary Well
Well Time Graph Report

Date	WI Cal		WI	
	Day Oil	Gas/Oil	Ratio	Oil Cut
	Bbl/d	scf/stb	%	
2002 08	---	---	---	---
2002 09	---	---	---	---
2002 10	---	---	---	---
2002 11	---	---	---	---
2002 12	---	---	---	---
2003 01	---	---	---	---
2003 02	---	---	---	---
2003 03	---	---	---	---
2003 04	---	---	---	---
2003 05	---	---	---	---
2003 06	---	---	---	---
2003 07	---	---	---	---
2003 08	---	---	---	---
2003 09	---	---	---	---
2003 10	---	---	---	---
2003 11	---	---	---	---
2003 12	---	---	---	---

Well Servicing Record

Lease Name State A-2 Well No. 4 Well Index Work Started 10 10 01 Completed 10 18 01

RODS TUBING PUMP

Failure Type 04 Contractor 136 PPPMaterial Transferred? (Y) or (N)Failure Cause 05 Pulling Cost 23,180Number Rods Used 0 Failure Location 03 Pump Shop 048 Liberty PumpWellView Updated? (Y) or (N)# Rods/Jts Down 33 Before Pulled After Pulled
Stroke Length 74 in. 74 in.Maintenance 04 Strokes Per Minute 10.5 6.5 Work Performed 08 Primary Cause of Failure (entry required) 01Run Time 23 % 70 %

Remarks:

Box Break 33 ^{Rods} Down

PULLED FROM WELL

I.D.	O.D.	FEET	JOINTS	DESCRIPTION
		30-40	1	2 1/4 55
		1.10	1	
		6718.11	213	3/8" Buffers
		2.70	1	7" x 2.70
		16	1	RHBC 2 x 1 1/4 16
		2100	84	
		5350	214	
		14	3	7/8 x 6'-2-4'
		75	3	1 1/2 x 25'
		8	1	1" x 8'

EQUIPMENT

Mud Anchor
Perforations
Working Barrel
Hold Down
Profile Nipple
Tubing
Tubing Subs
Tubing Anchor
Packer
Pump (API nomenclature)
Rods
Rods
Rods
Rod Subs
Polished Rods
K - Bars
Dip Tube

RAN IN WELL

I.D.	O.D.	FEET	JOINTS	DESCRIPTION
		30.38	1	2 1/4
		1.10	1	2 3/8
		6478.50	205	2 3/8 Buffers
		252.28	8	2 3/8 55
		2.70	1	7" x 2.70
		16	1	RHBC 2 x 1 1/4 16
		2100	84	7/8 x 25' EL
		5350	214	3/4 x 25' EL
		8	2	Centrod 1.25
		4	1	7/8 x 6'
		1	1	1 1/2 x 22'
		75	3	1 1/2 x 25'
		8	1	1" x 8'

Notes:

Scumlog Tbg laid down 8 bad JTS
Cleaned out to 6838.12 - uncovered Perfs. 22'
Acidize with two Drums of Phosphoric Acid
For CALCIUM CARB., change pump size from 1 1/4 to 1 1/2
changed shoe size from 8" to 5"
Before Pulled, OIL - 6 - GAS - 90 WTR - 8 INCREASE
After Pulled, OIL - 17 - GAS - 194 - WTR - 8 11 - OIL GAS - 104

K.B 15'
JTS 153 4931.00
TAC 4933.70
JTS 58 6759.08
S.N 6760.18
SDPM 6690.76

Operator R. H. H. H. Job Supervisor Alvin H. H. H.

Conoco Inc New Mexico Well Workover Application MCF History Well Workover Date = 10/19/2001

Compl Name - Compl	Compl ID - Compl	Compl Legacy Cd - Compl	API Well Cd - Compl	Rsvr Name - Compl	PUN / SUFFIX	Cnty Name - Compl	Sect	TWN	RNG	Dir
STATE A-2 / 4CEJ	1892591	6866275 4CEJ	300253130700	NORTH JUSTIS ABO	1034048 S 2540	LEA	2	25	37	E
STATE A-2 / 4CYE	1892592	6866275 4CYE	300253130700	JUSTIS BLINEBRY	1034036 S 2530	LEA	2	25	37	E
STATE A-2 / 4GNF	1892594	6866275 4GNF	300253130700	JUSTIS TUBB-DRINKARD	1034048 S 2540	LEA	2	25	37	E

Production Date	Workover Indicator	JUSTIS BLINEBRY	JUSTIS TUBB-DRINKARD	NORTH JUSTIS ABO
10/2000	1 Pre Workover Period	1,212	1,325	0
11/2000	1 Pre Workover Period	1,162	1,270	0
12/2000	1 Pre Workover Period	1,134	1,240	0
01/2001	1 Pre Workover Period	991	1,083	0
02/2001	1 Pre Workover Period	1,173	1,282	0
03/2001	1 Pre Workover Period	1,176	1,285	0
04/2001	1 Pre Workover Period	994	1,087	0
05/2001	1 Pre Workover Period	1,310	1,432	0
06/2001	1 Pre Workover Period	762	833	0
07/2001	1 Pre Workover Period	1,419	1,551	0
08/2001	1 Pre Workover Period	1,905	2,082	0
09/2001	1 Pre Workover Period	284	1,331	0
	Sum:	13,522	15,801	0

12 Mo Total: 29323
12 Mo Avg: 2444

10/2001	2 Workover Period	1,360	1,486	0
	Sum:	1,360	1,486	0

10/10/01 - 10/19/01
Clean out and acidize change pump size

11/2001	3 Post Workover Period	3,199	3,471	0
12/2001	3 Post Workover Period	3,201	3,473	0
01/2002	3 Post Workover Period	2,794	3,032	0
	Sum:	9,194	9,976	0

3 Mo Total: 19170
3 Mo Avg: 6390