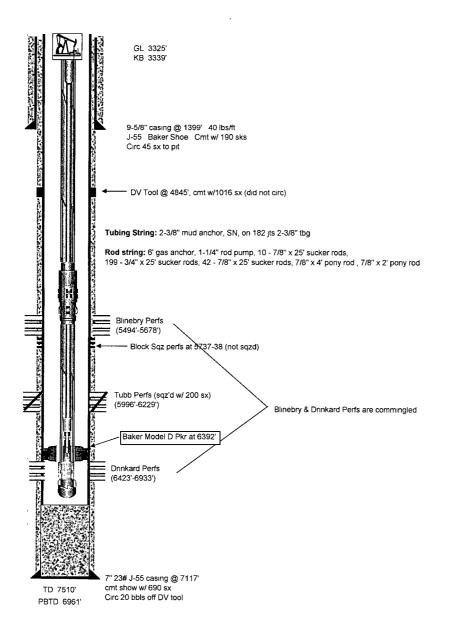
Submit 3 Copies To Appropriate District Office		New Me			Form	C-103
District I	Energy, Minerals	and Natura	Resources	WELL API NO. 3	June 19, 2008 0-025-22217	
1625 N. French Dr , <b>Hobbs</b> , NM 88240 <u>District II</u>	OIL CONSER	VATION I	IVISIO <b>RECE</b>	Time Type		
1301 W Grand Ave., Artesia, NM 88210		h St. Franc		STATE	FEE 🖂	
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	Santa F	e, NM 875	05 DFC 2	628134 Oil & Gas		
<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM			520 2	2000		
87505			HOBB:	SOCD		
SUNDRY NOTION (DO NOT USE THIS FORM FOR PROPOS.	CES AND REPORTS OF			7. Lease Name or	1	
DIFFERENT RESERVOIR. USE "APPLICA	ATION FOR PERMIT" (FOR	M C-101) FO	R SUCH	Agreement Nat  J. L. Muncy	me /	
PROPOSALS.)	Cos Wall Cother			8. Well Number		
1. Type of Well: Oil Well	Gas Well Other			4	,	
2. Name of Operator				9. OGRID Numb	er /	
Marathon Oil Company 3. Address of Operator	,			14021 10. Pool name or	Wildcat	
P.O Box 3487 Houston, TX 772	253-3487	Mail Stop	#3308	ł	unson, South, Drinkard	d-Abo
4. Well Location			- ***	/		
Unit Letter H: 1980' feet	from the North line a	nd 660' 1	eet from the East	line		
	22-S Range 37-E	NMPM	County	<del>-</del>		
The second se	11. Elevation (Show wh	nether DR,			and the second	
		GL: <b>3</b> 3	25'			
12 Check A	ppropriate Box to In	diente Me	ature of Notice	Depart or Other	Data	
12. Check A	рргориате вох то ш	uicate iva	itule of Notice,	Report of Other	Data	
NOTICE OF INT				SEQUENT RE		
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WOR	К 🗌	ALTERING CASIN	G 🗌
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRI	LLING OPNS.□	P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL		CASING/CEMEN	T JOB 🔲		
DOWNHOLE COMMINGLE		_				
OTHER:			OTHER: Down-H	ole Commingle Op	erations	$\boxtimes$
13. Describe proposed or comple						
of starting any proposed wor	k). SEE RULE 1103. F	or Multiple	e Completions: Att	tach wellbore diagra	m of proposed com	pletion
or recompletion.						
*Marathon Oil Company has co	ompleted down-hole	commin	gling operations	for the J. L. Mu	ancy #4	
by approval stated in the Adm	-		~ ~ .		•	
Drinkard-Abo Pools. Please se	e the attached appro	val letter	, procedure, we	llbores, and histo	ory for details of	the
well work done.						
1						
*NOTE: Fresh water used, no solids	or waste generated and	Kev Energ	v Services trucked	liquid to 'SWD'		
water used, no sonus	or waste generated, and	itoy Bhorg.	y Services trucked	inquia to BWD.		
11/28/2007	7		1	2/17/2007		
Spud Date:	Rig	Release D	ate:	2,17,2007		
<u> </u>			\ <u></u>	0	HC-314-	Δ
I hereby certify that the information a	hove is true and complet	e to the he	et of my knowledge		HC 317-	<u> </u>
Thereby certify that the information as	Jove is true and complet	e to the bea	st of my knowledge	and belief.		
$\bigcirc$ $\bigcirc$ $\bigcirc$ $\bigcirc$	100 00					
SIGNATURE Sick 3.	TITLE:	Regulator	y Compliance Rep.	DATE: <u>19-D</u>	EC-2008	
Type or print name Rick R. Schel	L E-mail address	rrechall@	MarathonOil.com	PHONE:	0063412	•
Type or print name Rick R. Schel				1110NL. /13-2	I/U-UTI#	
For State Use Only		STROLE	UM ENGINEER	1 A A •		
APPROVED BY:	fugTITLE		D	ate <u>JAN</u>	<b>1</b> 06 2009	
Conditions of Approval (if any):						



J.L. Muncy #4
County Lea
State New Mexico
Location 1980' FNL, 660' FEL
Section 24, T-22-S, R-37-E
API # 30-025-22217
Spud Date 8/21/67
TD 9/28/67
Diagram Date 11/14/2007

Notes:

**Top** 6627 Date Reservoir Btm Shots/ft Dia. Stimulation Treatment Other 9/29/1967 Drinkard 6933 20-shots total 9/30/1967 Drinkard 6627 6937 11 bbls 15% acid 2000 gal 15% acid and 30 - 7/8" RCN ball 6933 sealers 9/30/1967 Drinkard 6627 6933 Released balls and fractured formation w/ 20000 gal lease oil and 19000# 20/40 11/4/1967 Drinkard 6627 6858 11/4/1967 Drinkard 6882 6933 0 375 11/5/1967 Drinkard 6933 Fraced w/ 11000 gal lease oil and 10000# 20/40 mesh sand preceded by 4000 gal lease oil pad w/ 1/30#/gal Adomite 12/8/1967 Drinkard 12/11/1967 Drinkard 6423 6513 0 375 6933 Found indications of communication between perfs at 6423' - 6513' and perfs 6627' - 6698' 22,000 gal lease oil used 2,000 gal 15% spearhead acid 14,200# 20/40 mesh sand 150# of S-3 moth balls used between stages for diverting 1/4/1968 Tubb 5996 6229 1/8/1968 Tubb 5996 6229 2000 gal of 15% BD acid in 8 stages w/ 24 ball sealers for control Pumped 5000 gal pad of lease oil w/ 1/30#/ gal Adomite, then sand fraced w/ 20000 gal of lease oil gontaining 1#/ gal Adomite and FR-3 friction reducer Started sand frac w/ 1/2#/gal 20 2/20/1968 Drinkard 6423 6933 2 6000 gal of 15% acid Used 270# rock salt as a diverting agent 3/1/1968 Drinkard 6423 6933 30000 gal lease oil and 1/2#/gal sand 500 gal 15% spearhead acid 700# moth balls 4/16/1968 Blinebry 5565 5738 4/17/1968 Blinebry 5738 2500 gal BD acid and 30 ball sealers 30000 gal lease oil w/ 25000# 20/40 sand and 1500# 10/20 sand

#### **Tubb Recompletion Procedure**

#### J L Muncy #4

Surface Hole Location: 1980' FNL & 660' FEL Section 24, T-22-S, R-37-E, UL 'H' Drinkard Field Lea Co, NM

Date:

November 9, 2007

Purpose:

Temporarily Isolate Drinkard, Recomplete to Tubb, Commingle

Current Status: SI

WBS#:

RW.07.15919.CAP.CMP

**AFE Cost:** 

\$253,000

(gross)

WI: 100.00 %

NRI: 87.5 %

Elevation:

GL: 3325' KB· 3339'

PBTD: 6961'

Surface Casing:

9-5/8", 40# set @ 1399'. Cemented w/190 sacks (circ.)

TD: 7510'

**Production Casing:** 

7", 23#, J-55 set @ 7117' w/ 1660 sx

Tubing:

182 joints of 2-3/8", 4.7#, J-55, EUE

Size, Wt, Grade	ID (in)	Drift (in)	Burst (psig)	Collapse (psig	<u>bbl/1000 ft</u>
7", 23#, K-55	6.366	6.241	4360	3270	39.3
2-7/8", 6.5#, L-80	2.441	2.347	10570	11170	5.79
2-3/8", 4.7#, J-55	1.995	1.901	7700	8100	3.87

Pressure Information: Tubb ~2700 psig SIBHP, if virgin pressure

**Current Perforations:** 

Blinebry:

5494-5738

Drinkard:

6423-6933

**Recent Well Test:** 

10/04/07 - 1 BO/ 1 BW/ 34 MCFPD

#### **Procedure:**

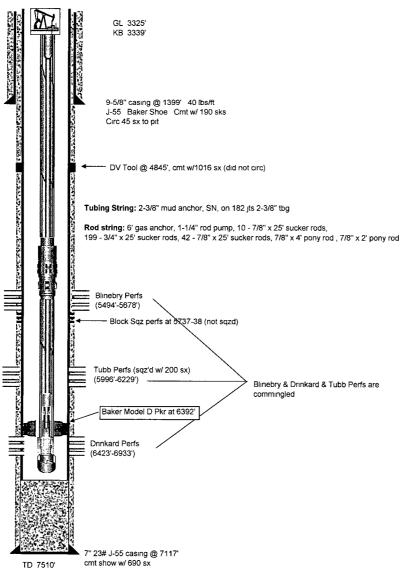
- MIRU WSU. POOH with rods and pump. Install and test BOPE. POOH with 2-3/8" tubing.
- Make bit and scraper run to PBTD at +/- 6961'. Please pick-up additional tubing as needed
  for this operation. Based on visual inspection of tubing in step one, you may wish to scana-log tubing while POOH.
- 3. RIH with retrievable bridge plug with ball catcher and set same at +/-6300'. PU end of setting tool to 6230' and pump 40 bbls of 7-1/2" NEFEHCL inhibited for 48 hours at 120 deg F. Displace acid with only 5 bbls of fresh water. Allow acid and water to fall. POOH with tubing and setting tool.
- 4. RU Baker Atlas electric line. Install pack-off. RU lubricator and RIH with 3-1/8" slick gun with 311T charges loaded 1 SPF, phasing is not critical. Total of 91 new holes. Use Welex micro-seismogram log dated 9-28-67 for depth control. Perforate from top-down to maximize benefit of acid.

```
5990-98 (9 holes)
6012-16 (5 holes)
6017-19 (3 holes)
6020-25 (6 holes)
6026-30 (5 holes)
6032-34 (3 holes)
6042-47 (6 holes)
6082-86 (5-holes)
6089-96 (8-holes)
6100-10 (11-holes)
6122-24 (3-holes)
6142-46 (5-holes)
6150-54 (5-holes)
6166-72 (6-holes)
6202-06 (5-holes)
6214-16 (3-holes)
6228-30 (3-holes)
```

Casing collars at: 5986, 6028, 6072, 6116, 6159, 6201, Short joint at 6201-6233. DV tool at 4832-35'.

After last gun has been shot, tag RBP with gun to verify setting depth and confirm plug has not moved. Pump 25 bbls of fresh water down casing to flush excess acid.

- 5. Deliver 6300' work string of 2-7/8" L-80 EUE tubing. Hydro test (6000 psi) 2-7/8" L-80 EUE tubing in hole along with treating packer and seating nipple to 5,800'. *Packer must be below block squeeze perfs at 5737-38' (not sqzd)*. Set packer and establish injection into new perforations. Pump 40 bbls of fresh water at maximum rate not to exceed 5000 psi using reverse unit or kill truck. Report rate and pressure to engineer to determine how much horsepower is needed for acid job
- RU acid company for acid stimulation. Need a minimum of 700 HHP on location (+/- 1000 HHP is desired). It is doubtful McClaskey has this much HHP available. Therefore, Halliburton or other service company may be required. Pump +/- 200 bbls (2-transport loads) of 15% NEFEHCL inhibited for 4 hours at 120 deg F. Use a ball injector loaded with 175 (1.1 SG) ball sealers for acid diversion. Start off pumping 10 bbls of acid, then Drop 1 ball for each 1-bbl of acid pumped. After last ball pump remaining acid. Pump at maximum rate (> 10 BPM is desired) not to exceed 5000 psi surface pressure. Displace acid with 50 bbls of fresh water.
- 7. Release packer and lower same to knock ball sealers off perforations. POOH laying down 2-7/8" tubing, treating packer, etc.
- 8. RIH with retrieving tool for RBP and production tubing and recover RBP. POOH.
- 9. RIH with production equipment as pulled and PWOP.



J.L. Muncy #4 County Lea State New Mexico Location 1980' FNL, 660' FEL Section 24, T-22-S, R-37-E API# 30-025-22217 Spud Date 8/21/67 TD 9/28/67 Diagram Date 11/14/2007

PBTD 6961'

Circ 20 bbls off DV tool

Date	Reservoir	Top	Btm	Shots/ft	Dia.	Stimulation Treatment	Other
9/29/1967	Drinkard	6627	6933	2		20-shots total	
9/30/1967	Drinkard	6627	6937			11 bbls 15% acid	
9/30/1967	Drinkard	6627	6933			2000 gal 15% acid and 30 - 7/8" RCN ball	
						sealers	
9/30/1967	Drinkard	6627	6933			Released balls and fractured formation w/	
						20000 gal lease oil and 19000# 20/40	
						sand	
11/4/1967	Drinkard	6627	6858	2			
11/4/1967	Drinkard	6882	6933	3	0 375		
11/5/1967	Drinkard	6627	6933			Fraced w/ 11000 gal lease oil and 10000#	***
	·					20/40 mesh sand preceded by 4000 gal	
						lease oil pad w/ 1/30#/gal Adomite	
12/8/1967	Drinkard	6423	6513	1	0 375		
12/11/1967	Drinkard	6423	6933			Found indications of communication	
	l			1		between perfs at 6423' - 6513' and perfs	
	1					6627' - 6698' 22,000 gal lease oil used	
						2,000 gal 15% spearhead acid 14,200#	
						20/40 mesh sand 150# of S-3 moth balls	1
						used between stages for diverting	
1/4/1968	Tubb	5996	6229	2			
1/8/1968	Tubb	5996	6229				
+	- 1		l i			2000 gal of 15% BD acid in 8 stages w/ 24	
	- 1					ball sealers for control Pumped 5000 gal	
1	1					pad of lease oil w/ 1/30#/ gal Adomite, then	
				I		sand fraced w/ 20000 gal of lease oil	
	1					gontaining 1#/ gal Adomite and FR-3 friction	
	1					reducer Started sand frac w/ 1/2#/gal 20	
2/20/1968	Drinkard	6423	6933	2		6000 gal of 15% acid Used 270# rock salt	
						as a diverting agent	
3/1/1968	Drinkard	6423	6933				
	1					30000 gal lease oil and 1/2#/gal sand 500	
						gal 15% spearhead acid 700# moth balls	
4/16/1968	Blinebry	5565	5738	2			
4/17/1968	Blinebry	5565	5738			2500 gal BD acid and 30 ball sealers	
	1			ļ		30000 gal lease oil w/ 25000# 20/40 sand	
			ŀ	1		and 1500# 10/20 sand	1

# Marathon Oil Company

# Final Well / Event Summary

Legal Well Name:

J L MUNCY NO 4

Common Well Name: J L MUNCY NO 4

Event Name:	RECOMPLETION

Start Date: 11/28/2007

End Date:

DATE	TMD	24 HOUR SUMMARY
11/28/2007	(ft)	Held Safety Meeting. MIRU Pulling Unit. Set Reverse Unit. Unbeam Well. Unseated pump. POOH w/ pony rods. Ran back w/ polish rod. Shut in Well. Secure Well. SDFN.
11/29/2007	(ft)	Held Safety Meeting. POOH w/ rods and pump. Install BOPE. Unset TAC. Pooh w/ tubing tallying. Rbih w/ kill string. Shut in Well. Secure Well. SDFN.
11/30/2007	(ft)	Safety Meeting. Kill Well. Rih w/ 2 3/8" loc seal tbg & 2 1/16" tbg & pooh laying dn. Unloaded and racked 2 7/8" N-80 work string. Rih w/ bit & Csg Scraper and 25 jts of 2 7/8" N80 for kill string. Shut in Well. Close Blind Rams. SDFN.
12/3/2007	(ft)	Safety Meeting. Kill Well. Fih tallying rest of 2 7/8" N-80 work string. Tag at 6398'. Pooh w/ bit & Csg Scraper, PU RBP & Pkr & 200 jts. Set RBP @ 6312'. Test plug to 1000psi. Unset pkr, laid dn jt, pumped 40 bls spot acid w/5 bls flush, PU 40 jts.SDFN
12/4/2007	(ft)	Safety Meeting. Kill Well. Pooh w/ tbg & pkr. Rigged up Baker Atlas to perforate. Made 7 runs. Perfed from 5990' - 6230'. Rih w/ kill string. Secure well, SDFN
12/5/2007	(ft)	Safety Meeting. Kill Well. Pooh w/ kill string. RU Hydrotesters. Had search dog & HR inspect location. (All was good) Tested in hole OK. RD testers, PUH 20 jts, left Pkr swingin @ 5100'. Pumped 15 bls water to displace acid. SDFN
12/6/2007	(ft)	Held Safety meeting. Rih w/ 20 jts, set Pkr @ 5800'. RU Acid Pump. Pump 200 bbls 15% HCL Aci @ 10.2 bpm @ 2980 psi. Drop 175 Ball Sealers. Had ball out. Flush w/ 48 bbls water Max rate 12.3, max psi - 4558, Pooh w/ Tbg & Pkr.Total load 248 bls SDFN.
12/7/2007	(ft)	Held Safety meeting. Took off thread protectors on tubing. High winds set in and shut operations down. Shut down for day.
12/8/2007	(ft)	Safety meeting. Rigged up testers. Tested BHA & production tbg bih. Tested good. ND BOPE, Set TAC & NU WH Tag @ 6916', 45' of fill to PBTD @ 6961'. Bottom perf @ 6933' 17' of Drinkard perfs covered below packer. SW SDFN.
12/10/2007	(ft)	Held Safety Meeting. RIH w/ Pump & Rods. Pumped 30 bbls dn tbg then Seated pump. Spaced out pump, hung well on. Load / test tbg. w/ 20 bls, No pump action. Tried long stroke. No pump action. Unseat pump, reseated, pmped 10 bls, no action. SDFN.
12/11/2007	(ft)	Safety Meeting. L & T tbg, wouldn't hold. Flushed down csg to maybe clear any trash in pump, lon stroke pump, still no pump action. POOH w/ rods and pump. Install BOPE. Unset TAC. Pooh w/ 160 jts 2 3/8". Shut down. Secure Well. SDFN.
12/12/2007	(ft)	Safety meeting. Fooh w/ production tbg & BHA. Wait for new SN & make sure hold dn on pump match for sure. Rbih w/ 2 3/8" & 2 1/16" w/ bha. ND BOPE, set TAC & NU WH. Rih w/ pump and rods. Hung on, Spaced pump. L&T no good. SW SDFN.

#### Page 2 of 2

### Marathon Oil Company

# Final Well / Event Summary

Legal Well Name:

JLMUNCY NO 4

Common Well Name: J L MUNCY NO 4

Event Name:	RECOMPLE	
DATE	TMD	24 HOUR SUMMARY
12/13/2007	(ft)	Safety Meeting. POOH with rods and pump. POOH tubing. Found split collar. Close well in. Secure Well. SDFN
12/14/2007	(ft)	Safety Meeting. RU, Run Hydro-Test on tubing. Tested Good. Close well in. Secure Well. SDFN
12/15/2007	(ft)	Safety Meeting. RBIH with pump and rods. Hung well on, load and test. Held good w/ good pump action. Left Pumping to facility. Secure well. SDFN.
12/17/2007	(ft)	Held Safety meeting. Clean and Inspect Location. RDMO Pulling Unit. RDMO Reverse Unit. Well pumping to facility.