

RECEIVED
OCT 29 2008
District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-06826	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name 'W. S. Marshall B'	8. Well Number 9
9. OGRID Number 14021	
10. Pool name or Wildcat Penrose Skelly Grayburg	

SUNDRY NOTICES AND REPORTS ON WELLS
(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
Marathon Oil Company

3. Address of Operator
P.O Box 3487 Houston, TX 77253-3487 Mail Stop #3308

4. Well Location
Unit Letter K : 2310' feet from the South line and 1650' feet from the West line
Section 27 Township 21-S Range 37-E NMPM _____ County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
KB: 3425' , GR: 3411'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<p>NOTICE OF INTENTION TO:</p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/></p> <p>DOWNHOLE COMMINGLE <input type="checkbox"/></p> <p>OTHER: <input type="checkbox"/></p>	<p>SUBSEQUENT REPORT OF:</p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/></p> <p>CASING/CEMENT JOB <input type="checkbox"/></p> <p>OTHER: Plug back Blinebry & Abo / Re-complete to GB <input checked="" type="checkbox"/></p>
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13. 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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

***Marathon Oil Company has completed operations to plug back the W.S. Marshall B, #9 in the Blinebry and Abo formations, and re-complete the well to the Penrose Skelly Grayburg formation. Please see the attachment for details of the well work done.**

***NOTE:** No inground activity, fresh water used, no solids or waste generated, and Key Energy Services trucked liquid to 'SWD'. Discussed with Buddy Hill at 'NMOCD' and determined Form C-144, not required for this application.

Spud Date: 6/ 12/1951 Rig Release Date: 7/26/2008

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Rick R. Schell TITLE: Regulatory Compliance Rep. DATE: 08-OCT-2008

Type or print name Rick R. Schell E-mail address rrschell@MarathonOil.com PHONE: 713-296-3412

For State Use Only
APPROVED BY: [Signature] TITLE: PETROLEUM ENGINEER DATE: OCT 31 2008
Conditions of Approval (if any): 2A Blinebry Oil & Wantz Abo

Recompletion Procedure

W.S. Marshall Well No. 9

2310' FSL, 1650' FWL

Section 27, 21S-37E

Lea County, New Mexico

WBS NO: RW.08.17691.CAP.CMP

Date: June 3, 2008

Purpose: Recomplete to Grayburg

Elevation: **KB:** 3425' **PBTD:** 7320'
 GL: 3412' **TD:** 7588'

Estimated Cost: \$355,000

WI: 100% **NRI:** 87.5%

Surface Casing: 13-3/8", 48#, H-40 set at 308'. Cemented w/ 300 sx. TOC @ ?

Intermediate Casing: 8-5/8", 32#, J-55 set at 2800'. Cemented w/1200 sx. TOC @ ?

Production Casing: 5-1/2", 17#, J-55 set at 7500'. Cemented with 1100 sx. Top of good cmt @ 3200' (CBL).

Production Tubing: 2-3/8", 4.7#, J-55, EUE. EOT @ 7130'.

Reservoir Pressure: Expected Pressure ~ <1630 psi

Open Perforations: 5484'-5917'; 6765'-7086'

SQZ Perforations: 5125-65', 7143-7205', 7245-70'

Safety Issues: H2S gas likely to be present

Tubular Performance/Capacities:

	ID (in.)	Drift (in.)	Burst* (psi)	Collapse (psi)	Capacity (bbl/ft)
2-3/8" 4.7 # J-55	1.995	1.901	6160	8100	.00387
5-1/2" 17# J-55	4.892	4.767	4256	4910	.0232
Tbg/Csg Annulus	-----	-----	-----	-----	.0178

*80%

RECOMPLETION PROCEDURE

W.S. Marshall Well No. 9

Lea County, New Mexico

Procedure:

1. Use fresh water as workover fluid.
2. RU WSU. Kill well with fresh water. Unseat pump POOH w/ Rods and pump. Unflange well head, release TAC. Install and test BOPE. POOH Stand Back 2-3/8" Tbg.
3. RIH with cast iron bridge plug (CIBP). ~~Set CIBP at +/-5100'~~. Circulate wellbore full w/freshwater and test to 2000 psi. PU end of tubing to 3850' and circulate a balance 4.3 - bbl slug of acid from 3850' to 3665' using 7-1/2" NEFEHCL inhibited for 48-hours at 125 deg F. POOH with tubing and tools.
4. **Perforate:**
RU Baker-Atlas electric line with pack-off.. For depth control, use McCullough GRL dated 1-12-1960. RU and test pack-off to 1000 psi. RIH with 3-1/8" slick guns loaded with 311T charges at 1 SPF and perforate 50 feet with 50 holes as follows. *(It is desired to perforate from top down to maximize acid in wellbore):*

3680-90 (10', 10 holes)
3700-10 (10', 10 holes)
3737-42 (5', 5 holes)
3765-70 (5', 5 holes)
3810-20 (10', 10 holes)
3825-30 (5', 5 holes)
3844-49 (5', 5 holes)

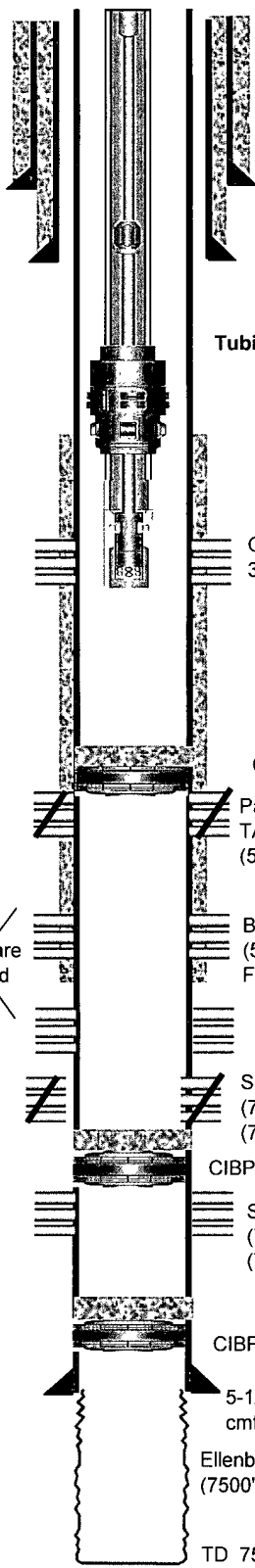
50 Net Feet – 50 Holes

After last gun has been shot, tag CIBP at 5100' and verify setting depth of CIBP. Dump 1 bailer of cement on CIBP. Pump 5 bbls of fresh water down casing to flush excess acid.

RD Baker-Atlas.

Casing collars at: 3629', 3673', 3712', 3755', 3796', 3837', 3879'. With short joints @ 3505'-3464'-3424'.

5. Frac per Halliburton design.
 - 156,182 # 20/40 brown sand
 - Five (5) – 500-bbl frac tanks w/ freshwater
 - Pump down casing at 55 BPM w/ treesaver
 - Use expedite on all sand
 - Displace with 95% of casing capacity to top perf (80 bbls)
 - Start flush when 2 ppg below max concentration
6. RD Halliburton equipment and tree saver.
7. RIH with 2-3/8" tubing and 4-3/4" bit and clean-out sand to 5100'. Reverse circulate well until clean returns. POOH laying down 2-3/8" TBG. Obtain 4000' of 2 7/8" 6.5# J-55 EUE TBG.
8. RIH with 4000' of 2-7/8" production equipment to produce Grayburg only. Remove BOP. Install wellhead. Set pump intake below lower perfs. Set TAC above top perforation. Install rods and pump. PWOP. Design pump to move upwards of 300 BWPD.



GL Elev 3411'
KB: 3425'
PBSD 7320'
TD: 7588'

13-3/8" casing @ 308' ; 48#/ft, H40
cmt w/ 300 sks

8-5/8" casing @ 2800', 32 #/ft, J55
cmt w/ 1200 sks

Tubing String: 2-7/8" 6 5# J-55 EUE TAC@ 3563', SN @ 3849',

Top of Good Cement @ 3200

Grayburg Perfs 3680-90, 3700-10, 3737-42, 3765-70, 3810-20,
3825-30, 3844-49 @ 1 SPF (50 holes)

CIBP @ 5040' w/ 20' cement

Paddock Perfs Acidized 3000 gals of acid, in 1960.
TA from 1960 to 1969, during 1969 perfs.sqz'd:
(5125'-5165')

Blinebry &
Abo perfs are
commingled

Blinebry Perfs: Acidized 3000 gals 15%NE, in 1985 and 1997
(5484'-5917')
Frac 217.000# of sand

Abo Perfs: Acidized 5000 gals of 15% LSTNE (BS) , in 1969.
(6765'-7086')

Simpson Perfs
(7143' - 7205') Acidized w/ 2500 gals of LST (in 1959, sqzed in 1969)
(7245' - 7270') Acidized w/2000 gals of LST (in 1959, sqzed in 1969)

CIBP @ 7320' (in 1959)

Simpson Perfs
(7330'-7400')
(7143' - 7205') Acidized w/ 2500 gals of LST (in 1959, sqzed in 1969)

CIBP @ 7450' (in 1959)

5-1/2" casing @ 7500'; 17#/ft, J55
cmt w/ 1100 sks

Ellenberger OH:
(7500'-7588') in 1951, Acid job.

TD 7588'

W.S. Marshall #9

County: Lea

State: New Mexico

Location: 2310' FSL & 1650' FWL

Section 27, T-21-S, R-37-E

API #: 30-025-06826

Spud Date: 6/12/51

TD: 7/22/51

Diagram Date: 9/24/2008

Please see completion details in the next page.

Operations Summary Report

Legal Well Name: W S MARSHALL B NO 9
 Common Well Name: W S MARSHALL B NO 9
 Event Name: RECOMPLETION
 Contractor Name: KEY ENERGY SERVICES
 Rig Name: KEY ENERGY SERVICES

Spud Date: 2/5/2008
 End: 7/26/2008
 Rig Release: 7/26/2008
 Group:
 Rig Number: 174

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
7/17/2008	15:00 - 18:00	3.00	PUMP	ACID	CMPPUL	Pumped 5 bbls of 7 1/2% NEFE HCL and pooh w/ tbg, setting tool. Left acid on spot.
7/18/2008	18:00 - 18:30	0.50	SECURE	WELL	CMPPUL	SW, SDFN.
	06:30 - 07:00	0.50	SAFETY	MTG	CMPPUL	Safety Meeting. Rig up Baker Atlas Perforating Equipment
	07:00 - 08:00	1.00	TEST	EQUI	PERF	Assemble 3-1/8" Slick Gun Carrier w/ 311T w/ 23 gram Charges w/ 1 JSPF, w/ Collar Locator PU pack off and tested to 1000 psi. Held Pressure.
7/23/2008	08:00 - 13:00	5.00	PERF	WLNC	PERF	First 2 runs were no fires. Am and PU Perforating Gun. RIH w/ 3-1/8" 28' Slick Gun Carrier w/ 311T w/ 23 gram Charges w/ 1 JSPF, w/ Collar Locator. Get on Depth. Perforate f/ 3680 - 90', 3700-10' & 3737 - 42' @ 1 SPF, all shots fired. POOH with Wire Line. Rbih w/ 34' gun #2, and shot from 3765 - 70' - 3810 - 20' & 3825 - 30' & 3844 - 49' @ 1 SPF, all shots fired. Rih cement bailer, tag CIBP @ 5040'. TOC @ 5020'. Total of 50 holes 50 net ft. RD Baker Atlas.
	13:00 - 18:00	5.00	RUNPUL	TBG	CMPPUL	RD floor and tongs. Broke down perfs @ 1200 psi Pump in rate of 2 bpm @ 800 psi. ISIP @ 800 psi. Drop to 0 psi in 5 min.
	18:00 - 18:30	0.50	PERF	RURD	PERF	SDFN.
7/24/2008	07:00 - 07:30	0.50	SAFETY	MTG	CMPSTM	Held Safety Meeting
	07:30 - 12:00	4.50	RURD	STIM	CMPSTM	Rig up Halliburton Tree Saver. Wait on HHP, Rig up Halliburton Sand Fracturing Equipment. Open intermediate & surf casing. Monitor during job. Test lines to 5000 psi.
	12:00 - 17:00	5.00	PUMP	FRAC	CMPSTM	Van lost power. Waited for another one from the Hobbs yard Start Pumping Frac Job. Pumped 83 bls of 7 1/2% Acid, Pumped 1921 bls cross linked Gel Pad, 1-5 PPG 20/40 Sand - Premium Brown, totaling 137,663 lbs. Pumped Expedite in all sand down 5-1/2" casing. Pumped 81 bbls Flush liner gel. Average BH Treating Rate was 53 bpm and average WH Psi was 1779 psi. ISDP = 1436 psi. 5min=1382 psi 10min=1371 psi. 15min=1363 psi. Bleed off Surface line Pressure
7/25/2008	17:00 - 19:30	2.50	RURD	STIM	CMPSTM	RD Tree Saver. Shut BOPE blind rams. Rig down Halliburton Frac Equipment. Total Load to Recover = 2085 bbls liquid to recover.
	19:30 - 20:00	0.50	SECURE	WELL	CMPSTM	Shut-in and Secure Well. SDFN
	06:00 - 07:30	1.50	SAFETY	MTG	CMRUN	Held Safety Meeting. Check Well Pressure Casing had 0 psi.
7/25/2008	07:30 - 14:00	6.50	RUNPUL	TBG	CLNOUT	RIH w/ 4 3/4" bit and 162 Jts 2-7/8" Tubing. Tag Top of sand Fill @ 4967'. 1100' of rathole below bottom perf @ 3849'. No cleanout needed. Pooh laying down all of the 2 3/8 J-55. Unloaded and racked new 2 7/8" J-55 tubing. Tallied pipe.
	14:00 - 18:00	4.00	TEST	TBG	RODOP	RU hydrotesters to test in the hole. Rih w/ 2 jts 2 7/8", SN, 1 - alloy jt, 8 jts 2 7/8, TAC, & 50 jts 2 7/8". Shut down for night. Finish testing in w/ rest of tbg in AM.
	18:00 - 18:30	0.50	SECURE	WELL	RODOP	Shut-in and Secure Well. SDFN
7/25/2008	06:00 - 07:30	1.50	SAFETY	MTG	RODOP	Held Safety Meeting. RU testers. Open Well up.
	07:30 - 11:30	4.00	RUNPUL	TBG	RODOP	Tested in the hole w/ the last 62 jts 2-7/8". Tested Good. Total of 121 Jts above Seating Nipple. TAC @ 3563'. Seating Nipple @ 3849' and Bottom of Tubing @ 3913'. TAC 117' above top perforation set in 15 pts Tension, Seating Nipple 0' below bottom perforation. Bottom of open ended tbg is 1063' off bottom. PBTd (4967' top of sand), (CIBP @ 5033' by tbg tally). Grayburg perfs @ 3680' - 3849'.
	11:30 - 12:30	1.00	NUND	BOPE	RODOP	Remove BOPE. Set TAC in 10 pts Tension Install Well Head. Change out equipment to run Rods.
7/25/2008	12:30 - 18:00	5.50	RUNPUL	RODS	RODOP	Pick up new rods, put on cplgs and rih w/ 2.00" RWBC pump w/ strainer nipple, 10 - 1.0" KD's, 100 - 7/8" KD's, 43 - 1.0" KD's, and 1 25" x 26' PR w/ 1.50"x16' Liner Hung well on L&T to 1000#. Held good w/ good pump action. Left well down til AM

Legal Well Name:	W S MARSHALL B NO 9
Common Well Name:	W S MARSHALL B NO 9
Event Name:	RECOMPLETION
Contractor Name:	KEY ENERGY SERVICES
Rig Name:	KEY ENERGY SERVICES

Start:	2/5/2008	Spud Date:	
Rig Release:	7/26/2008	End:	7/26/2008
Rig Number:	174	Group:	

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Well history

Year	Formation	Perforations			Perf.	Stimulation
1951	Ellenberge	OH			Density	
1959	Simpson	7330	to	7400	2 spf	1-) Acid
		7143	to	7205		2-) Acid
		7245	to	7270		3-) Acid.
1960	Upper Paddock	5125	to	5165	160 holes 4SPF	Acid
1969	Abo	6765				4-) Acid
		6780				
		6786				
		6805				
		6812				
		6844				
		6855				
		6863				
		6884				
		6908				
		6914				
		6925				
		6958				
		6978				
		6994				
		7012				
		7054				
		7072				
		7086				
1985	Blinebry	5652				5-) Acid
		5655				
		5679				
		5692				
		5699				
		5717				
		5721				
		5744				
		5757				
		5782				
		5790				
		5810				
		5831				
		5843				
		5873				
		5881				
		5892				
		5899				
		5917				
1997	Blinebry	5484	to	5512	2 spf	6-) Acid and frac.
		5418	to	5438		
		5444	to	5450		
		5458	to	5468		
		5476	to	5486		
		5492	to	5498		
		5604	to	5614		
		5643	to	5656		
		5664	to	5680		
		5690	to	5702		
		5610	to	5720		
		5680	to	5790		
		5802	to	5811		
		5822	to	5832		