

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

HOBBS OCD

APR 28 2015

RECEIVED

Form C-101
Revised July 18, 2013

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address CROSS TIMBERS ENERGY, LLC 400 WEST 7th STREET, FORT WORTH, TEXAS 76102		⁴ OGRID Number 298299
		³ API Number 30-025-31445
⁴ Property Code 312471	⁵ Property Name SOUTHEAST MALJAMAR GB/SA UNIT	⁶ Well No. 907

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	32	17S	33E	8	2310	N	990	E	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
H	32	17S	33E	8	2310	N	990	E	LEA

9. Pool Information

⁹ Pool Name MALJAMAR; GRAYBURG-SAN ANDRES	¹⁰ Pool Code 43329
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Additional Well Information

¹¹ Work Type E	¹² Well Type O	¹³ Cable/Rotary R	¹⁴ Lease Type S	¹⁵ Ground Level Elevation 4038
¹⁶ Multiple NO	¹⁷ Proposed Depth 4600	¹⁸ Formation GB/SA	¹⁹ Contractor	²⁰ Spud Date 05/15/2015
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
SURF	12 1/4	8 5/8	24	338	200	SURF
PROD	7 7/8	5 1/2	17, 15.5	4600	1450	SURF

Casing/Cement Program: Additional Comments

CSG & CMT INTACT.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DOUBLE RAM	5,000 PSI	3,000 PSI	TBD

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ , if applicable. Signature: <i>Robbie A Grigg</i>		OIL CONSERVATION DIVISION	
Printed name: Robbie A Grigg		Approved By: <i>[Signature]</i>	
Title: Regulatory Compliance		Title: Petroleum Engineer	
E-mail Address: rgrigg@mspartner.com		Approved Date: 04/04/15	Expiration Date: 05/04/17
Date: 04/27/2015	Phone: 817-334-7842	Conditions of Appr	

E-PERMITTING -- New Well _____
Comp _____ P&A _____ TA _____
CSNG _____ Loc Chng _____
Re-Entry _____
Add New Well _____

MAY 08 2015

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-31445
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 312471
7. Lease Name or Unit Agreement Name SE MALJAMAR GB/SA UNIT
8. Well Number 907
9. OGRID Number 298299
10. Pool name or Wildcat VACUUM; ABO, NORTH

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐	APR 28 2015
2. Name of Operator CROSS TIMBERS ENERGY, LLC	
3. Address of Operator 400 WEST 7th STREET, FORT WORTH, TX 76102	RECEIVED
4. Well Location Unit Letter H 2310 feet from the N line and 990 feet from the E line Section 32 Township 17S Range 33E NMPM County LEA	
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	4038 GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☒		OTHER: ☐	

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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Re-enter, test, return to production:

1. Build pad, install well head.
2. Drill out plugs.
3. Test GB/SA perfs for productivity.
4. P&A or RTP.

See attached current and proposed schematics.

Spud Date:

11/20/1991

Rig Release Date:

12/18/1991

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

SIGNATURE

Robbie A. Grigg

TITLE **Regulatory Compliance**

DATE **04/27/2015**

Type or print name **Robbie A Grigg**

E-mail address: **rgrigg@mspartners.com** PHONE: **817-334-7842**

For State Use Only

APPROVED BY:

[Signature]

TITLE **Petroleum Engineer**

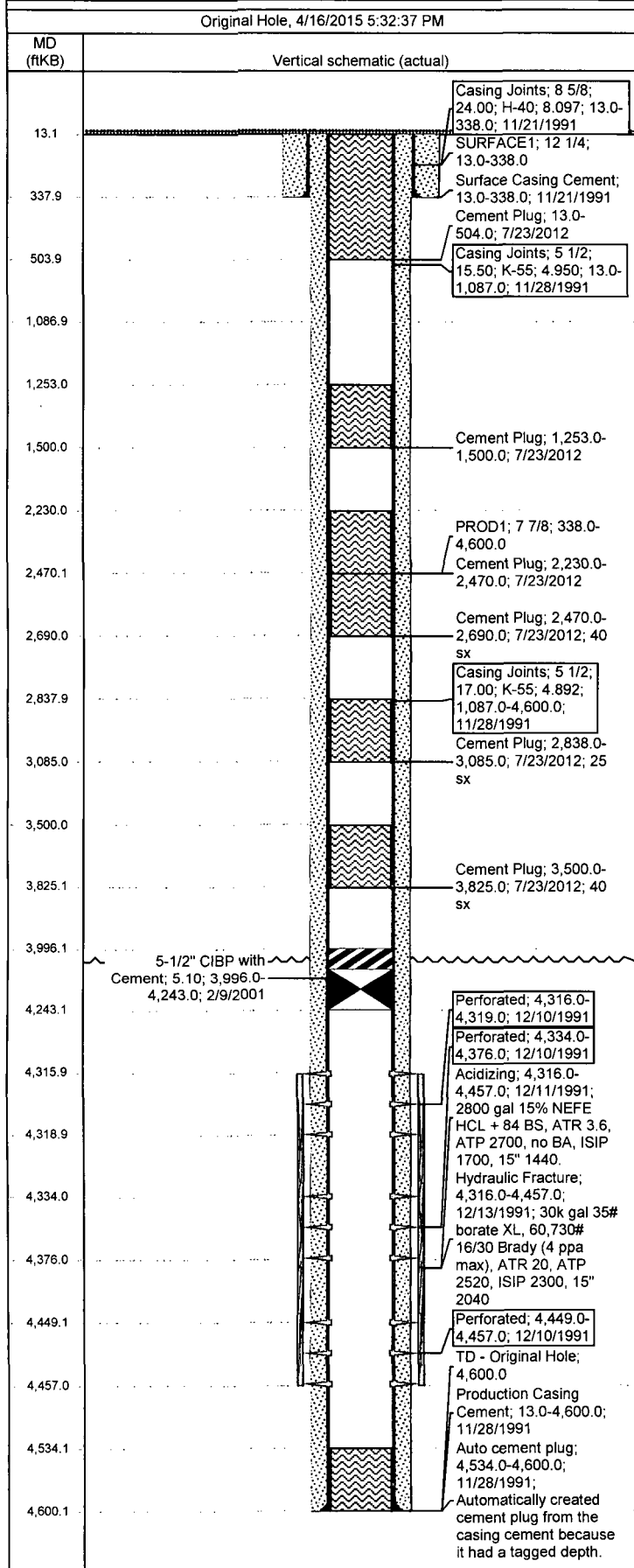
DATE

05/04/15

Conditions of Approval (if any):

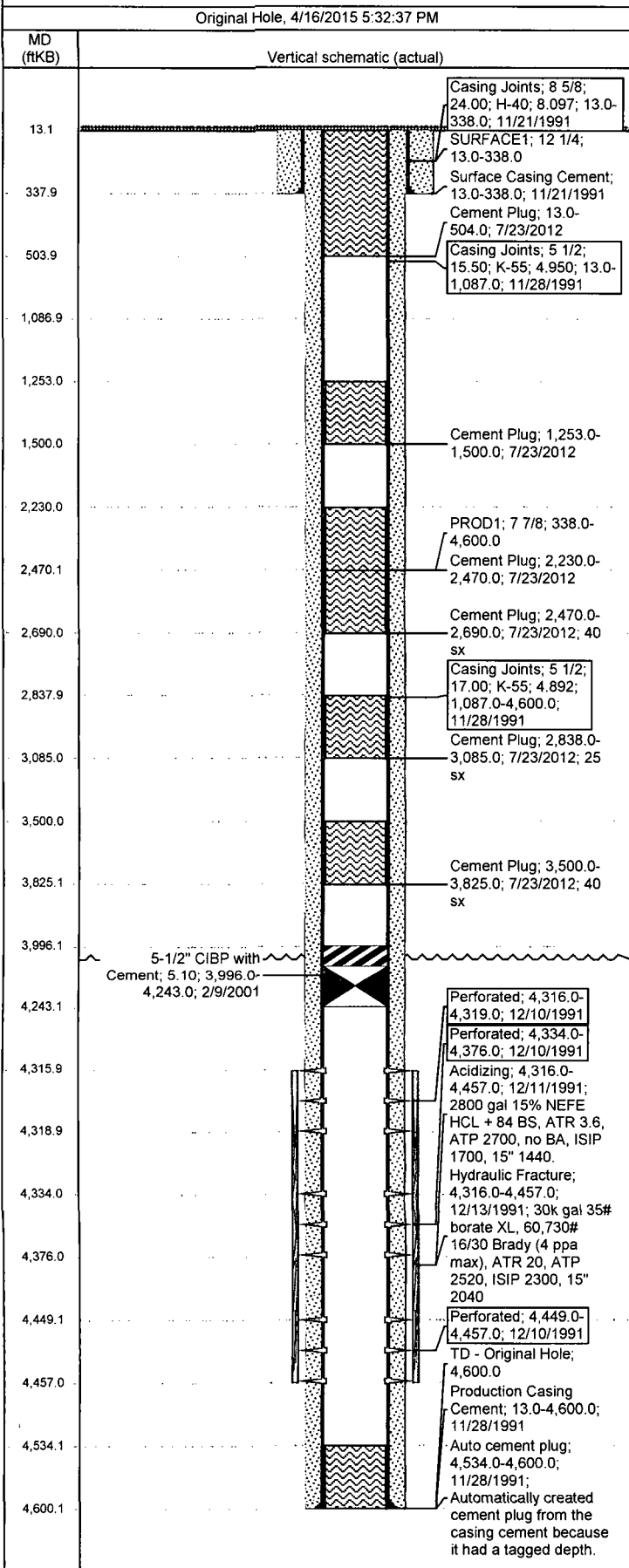
Schematic & History

Well Name SOUTHEAST MALJAMAR GB/SA UNIT 907			API/UWI 3002531445		County Lea			State/Province New Mexico		Field Name MALJAMAR	
Location 2310 FNL & 990 FEL					Township 17S	Range 33E	Section 32	Latitude (°) 32° 47' 30.935" N		Longitude (°) 103° 40' 47.753" W	
Section	Survey						Block		Township		Abstract
Original KB Elevation (ft) 4,051.00			Ground/Corrected Ground Elevation (ft) 4,038.00			KB-Ground Distance (ft) 13.00			Spud Date		



Jobs						
Type		Start Date	Summary			
Drilling Original & Initial Completion		11/20/1991	D&C Premier, SA producer. Perf. A. & frac Premier & SA commingled. IP 24 BOPD, 32 BWPD, 10 MCFD, 37.0 API.			
Casing Pressure Test		2/29/1992	SICP 255#/121', static FL 4297' FS, calc SIBHP 338#.			
Convert To Injection		4/27/1992	CTI. I. 370 BWPD, 0#. Exceeded inj. pressure limit by 10/8/1992.			
Convert to Production		7/8/1993	CTP. IP 2 BOPD, 27 BWPD.			
Temporarily Abandon Well		5/21/1995	LD rods & tbq			
Temporarily Abandon Well		2/9/2001	Set CIBP, tst csg to 500#, hld gd.			
ABANDONMENT P&A		7/23/2012				
Wellbore Sections						
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	
SURFACE1	Original Hole	12 1/4	13.0	338.0	11/20/1991	
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	
PROD1	Original Hole	7 7/8	338.0	4,600.0	11/22/1991	
Surface 338.0 ftKB 11/21/1991						
Comment						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
8 5/8	24.00	H-40	13.0	338.0	325	Casing Joints
Production 4,600.0 ftKB 11/28/1991						
Comment						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
5 1/2	15.50	K-55	13.0	1,087.0	1074	Casing Joints
5 1/2	17.00	K-55	1,087.0	4,600.0	3513	Casing Joints
Cement Stages						
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Surface Casing Cement	13.0	338.0	Cement Returns	200 sx Class C + 2% CaCl, circ. 5 sx.		
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Production Casing Cement	13.0	4,600.0	Cement Returns	Lead: 1200 sx Class C + 8% gel, 5 pps CaCl; Tail: 250 sx Class C + 3 pps sd, 5 pps CaCl, circ.		
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Cement Plug	3,500.0	3,825.0	Bit Tag			
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Cement Plug	2,838.0	3,085.0	Calculated			
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Cement Plug	2,470.0	2,690.0	Bit Tag			
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Cement Plug	2,230.0	2,470.0	Bit Tag			
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Cement Plug	1,253.0	1,500.0	Calculated			
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Cement Plug	13.0	504.0				
Perforations						
Top (ftKB)	Btm (ftKB)	Shot Dens (shot s/ft)	Date	Zone	Calculated Shot Total	
4,316.0	4,319.0	1.0	12/10/1991	GRAYBURG, <idrecwellbore>	4	
4,334.0	4,376.0	1.0	12/10/1991	GRAYBURG, <idrecwellbore>	43	
4,449.0	4,457.0	1.0	12/10/1991	SAN ANDRES, <idrecwellbore>	9	
Stim/Treat Stages						
Type	Start Date	Top (ftKB)	Btm (ftKB)	Com		
Hydraulic Fracture	12/13/1991	4,316.0	4,457.0	30k gal 35# borate XL, 60,730# 16/30 Brady (4 ppa max), ATR 20, ATP 2520, ISIP 2300, 15" 2040		

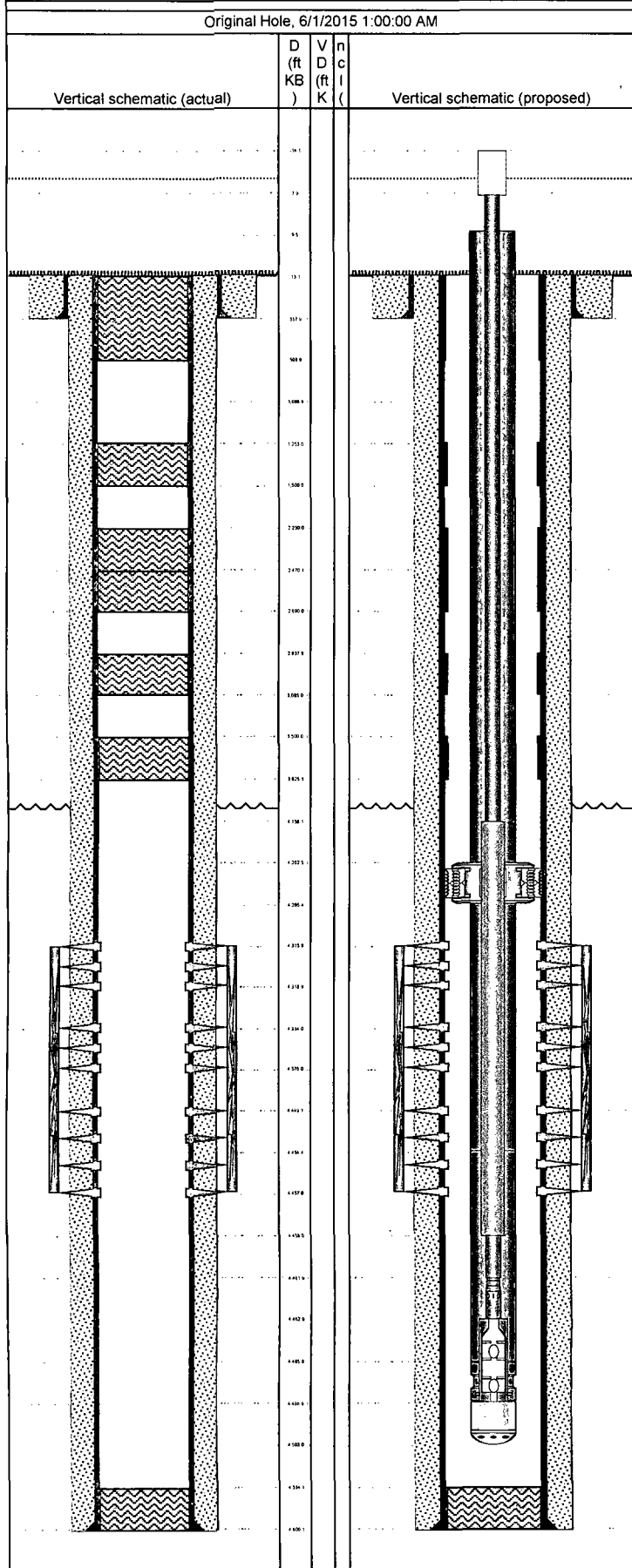
Schematic & History



Stim/Treat Stages						
Type	Start Date	Top (ftKB)	Btm (ftKB)	Com		
Acidizing	12/11/1991	4,316.0	4,457.0	2800 gal 15% NEFE HCL + 84 BS, ATR 3.6, ATP 2700, no BA, ISIP 1700, 15" 1440.		
Other In Hole						
Des	Com		OD (in)	Run Date	Top (ftKB)	Btm (ftKB)
5-1/2" CIBP with Cement			5.1	2/9/2001	3,996.0	4,243.0
<des> set at <depth>ftKB on <dtmrun>						
Set Depth (ftKB)	Comment			Run Date	Pull Date	
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB) Btm (ftKB)
<des> on <dtmrun>						
Rod Description						
Item Des			OD (in)	Grade	Jts	Len (ft)

Proposed Schematic & Details

Well Name SOUTHEAST MALJAMAR GB/SA UNIT 907		API/UWI 3002531445		County Lea		State/Province New Mexico		Field Name MALJAMAR	
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Section		Survey		Block		Township		Abstract	
Original KB Elevation (ft) 4,051.00		Ground/Corrected Ground Elevation (ft) 4,038.00		KB-Ground Distance (ft) 13.00		Spud Date			



Jobs							
Re-Activate, <dtmstart>							
Type Re-Activate	Planned Start Date 6/1/2015	Objective Re-enter, evaluate response from injection, acidize if needed, RTP.					
Wellbore Sections							
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date		
Cement Stages							
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment			
Perforations							
Top (ftKB)	Btm (ftKB)	Shot Dens (shot s/ft)	Date	Zone	Calculated Shot Total		
Stim/Treat Stages							
Type	Start Date	Top (ftKB)	Btm (ftKB)	Com			
Other In Hole							
Des	Com	OD (in)	Run Date	Top (ftKB)	Btm (ftKB)		
Tubing - Production set at 4503ftKB on 6/1/2015 00:00							
Set Depth (ftKB) 4503	Comment	Run Date 6/1/2015		Pull Date			
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Tubing	2 3/8	4.70	J-55	4253	135	9	4262
5-1/2" x 2-3/8" Tbg Anchor Catcher	4 1/4			3	1	4262	4265
Tubing	2 3/8	4.70	J-55	189	6	4265	4454
Tubing - IPC	2 3/8		J-55	31.5	1	4454	4486
Seat Nipple	2 3/8			1.1	1	4486	4487
OPMA	2 3/8	4.70	J-55	16	1	4487	4503
Insert Pump on 6/1/2015 01:00							
Rod Description							
Insert Pump							
Item Des	OD (in)	Grade	Jts	Len (ft)			
Polished Rod	1 1/2	SM	1	22			
Sucker Rod	3/4	D	166	4150			
Sinker Bar	1 1/4	K	12	300			
Sucker Rod w/Molded Guides	3/4	D	1	4			
RHBO Tool	3/4		1	1			
Rod Insert Pump	1 1/2		1	24			