

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NM024368A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
Red Hills Unit #5

9. API Well No.  
30-025-35112

10. Field and Pool, or Exploratory Area  
Red Hills; Wolfcamp (Gas)

11. County or Parish, State  
Lea County, NM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
Matador Operating Company

3a. Address  
310 W. Wall, Ste 906 Midland, TX 79703

3b. Phone No. (include area code)  
915-687-5955

4. Location of Well (Fontage, Sec., T., R., M., or Survey Description)  
1695 FNL; 717 FWL  
Sec. 33, T25S, R33E

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Well Completion</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

See Attachment

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)  
Russ Mathis

Title  
Production Manager

Signature  
*Russ Mathis*

Date  
7/11/01

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (ORIG, SGD) **DAVID R. GLASS**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title  
Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED  
JUL 13 1907  
ROSWELL, N.M.

47  
100  
100

## Matador Operating Company

### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

11/09/00 Vacuum truck emptied cellar and pulled water off location. Getting location ready for backhoe and mast anchors.

11/13/00 MIRUPU. Set mast anchors.

11/14/00 Received and cleaned tubing. Received 402 joints new Lonestar 2-7/8" EUE 8rd L-80 6.5 (12881.21') and 48 joints new Lonestar 2-3/8" EUE 8rd L-80 4.7 (1534.21'). Received 59 joints 2-3/8" EUE 8rd L-80 4.7 used tubing from Matador stock located at Bulldog yard. Measured length with threads off is 1652.28. Measured length with threads off on the new tubing is 1522.51. Well pressure is 50 psi. ND flange and valve. NU 7-1/16" 10K x 7-1/16" 5K spool, 5000 BOP. RIH with 3.50" Mill, X-over, 100 joints 2-3/8" tubing, X-over and 60 joints 2-7/8" tubing. SWI, SDON.

11/15/00 Received 50 replacement joints and returned 50 joints to Phillips Casing. RIH with tubing and felt top of liner at 12561'. Circulated bottoms up with mud returns. RIH with tubing to 13849' and circulated bottoms up with mud returns. RIH with tubing and set down at 14161' KB. PU swivel and started washing. Drilled from 14161' to 14231. Recovered cement at bottoms up. Circulate clean, RD swivel and laid down 6 joints. SWI, SDON.

11/16/00 Remove stripper rubber and POH with tubing to PU DC's. RIH with 3.5 mill, 6 2-7/8" DC, 99 joints 2-3/8" and 331 joints 2-7/8 tubing. SWI, SDON

11/17/00 Drill cement inside 4-1/2" liner to 14480'. Circulate hole clean. SWI, SDON.

11/18/00 Drill cement inside 4-1/2" liner to 14738'. Circulate hole clean. SWI, SDOS.

11/20/00 Drill cement inside 4-1/2" liner to 14938'. Displace hole clean with 485 bbls 10# brine. RD swivel, stripper and POH with tubing. SWI, SDON.

11/21/00 FOH with tubing. Laid down 2-3/8" and collars. Load hole with 27 bbls 10# brine. RU Baker wireline. Ran 3.50 gauge ring to 14920 (slight bobble getting into liner). Ran CCL, CBL (Radial Analysis log) from 14943 to 14450 with 0 pressure. Ran same log from 14943-12530 with 4000 psi applied. RD Baker. PU line dressing tool and RIH with 40 stands. SWI, SDON. Cement questionable from 14750-14804. TOC at 12845. Cement ok to proceed with perforating.

11/21/00 FIH with tubing. PU swivel and tagged liner top at 12564.33'. Dressed top of liner with 1-2 points. Reversed bottoms up. Dropped ball and pumped 220 bbls without seeing a pressure increase. Washed latch area in hanger. RD swivel, stripper and POH with tubing. Found ball on seat. Pumped through dressing tool with ball on seat. Fluid coming out of wash ports ok. Pump pressure at 200 psi with no leak by on ball and seat. SWI, SDO Thanksgiving.

11/27/00 Test seal assembly, TOSSD, 1 joint, X-nipple, 1 joint to 10,000 psi. Pulled test plug and RIH with tubing testing to 10,000 psi above slips. Sting into liner assembly and pulled 22,000 points over to confirm latch. Tested tubing/casing annulus to 1,000 psi - ok. Released TOSSD and reversed 460 bbls 10# brine with 240 gals Pro Kem packer fluid. Engaged TOSSD and pressured annulus to 1000 psi - ok. LWSI, SDON.

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

11/28/00 Removed 4' sub and installed a 2' tubing sub. Tested 1 joint and both subs to 10,000 psi above slips. Engage TOSSD and pulled 10 points over to confirm latch. Pressured tubing/casing annulus to 1000 psi – ok. Pressured tubing, seal assembly and casing below liner hanger to 8000 psi – ok. Removed BOP and spool. Installed 2-9/16" tree with wrap-around. The wrap-around, BOP bushing, and the bottom master valve would not hold 10,000 psi. ND tree and sent back to shop for repairs. RU Baker wireline and ran CCL, GR with 2.25 OD drift. Logged from 14940-12450'. SWI, SDON.

## Tubing detail:

	Smith 5" OD seal assembly with 4 sets packing (OD 4-15/16 ID 3-1/2" with muleshoe bottom)	10.44
	On/off tool with 2.313 MX profile	3.07
1 joint	2-7/8" EUE 8rd L-80 6.5#	31.85
	2.313 MX profile nipple	1.21
392 jts	2-7/8" EUE 8rd L-80 6.5 tubing	12465.11
	2 – 2-7/8 EUE 8rd L-80 6.5# subs 10.13-2.10	12.23
1 joint	2-7/8" EUE 8rd L-80 6.5#	<u>31.85</u>
394 jts	Total tubing and tools	12555.76
	KB (Top of tubing head + 1' below GL)	<u>21.00</u>
		12576.76
	8 points slackoff	<u>-2.00</u>
	Top of liner hanger	12574.76

11/29/00 NU 2-9/16" 10K tree. Test all connections, wrap around, BO-2 coupling, and flange connections to 10,000 psi – good. RD Basic. RU Baker Atlas with 10K lubricator, grease injection, and crane. Perforate Atoka Formation at 1 JSPF using 2-1/8" strip gun loaded with predator charges as follows: 14778, 79, 80, 81, 82, 83, 90, 92, 94, 96, 98, 800, 02 (one run). 14661, 63, 65, 67, 69, 71, 73, 75, 77, 81, 83 (one run). 14601, 02, 03, 04, 05, 11, 13, 15, 17, 19, 21, 23 (one run). TOH after dark. Shut well in. SDFN. Note: no movement on well when guns fired, but vacuum was found on well after POH with guns following first set of perforations. No noticeable change after 2nd and 3rd runs.

11/30/00 Slight vacuum on tubing. Perforate Atoka as follows: 4th run, 14721, 23, 25, 27, 29, 31, 33, 35, 37, 9 holes. 5th run, 14699, 701, 03, 05, 07, 09, 11, 13, 15, 17, 19, 11 holes. RIH with run #6 and stacked out at 442'. POH with strip and found bottom 3 shots broke off strip. Shots were still connected to prima cord. Repaired strip and RIH with guns. Strip stopped at 9640'. Unable to work guns free. Pulled out of rope socket and POH with wireline. Line indicated it was pulled out of the socket. Rehead line and lay down lubricator. RU Rotary wireline and RIH with fishing tools to fish rope socket. Recovered tools and perforating strip. There were 7 charges missing off of the strip. There was a pigtail of prima cord indicating only approximately 6 inches left in hole. RD Rotary wireline. SWI, SDON. Intend to run gauge ring run am 12/1/00. Contractor RU flow back equipment.

12/01/00 RIH with 2" sinker bar and stacked out on perforating charges at 10054'. POH with tools and found markings on bottom cap of sinker bar. Wait on magnets. Run 2-1/4" magnet with jars. Set on charges and POH. Recovered small clips off of perforating strip. RIH with 2-1/8" skirted magnet and set down on charges. POH with no recovery on the magnet. SWI, SDON. Plan to run muleshoe sucker rod on 12/2/00.

## Matador Operating Company

### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

- 12/02/00 RU Rotary wireline. RIH with 8' 7/8" muleshoe sucker rod, jars and bumper sub. Engage fish at 10054' and charges fell free. Continue in hole with tools catching charges at 10350 and 11770. Let charges fall and RIH to 12800 without any restriction. RD Rotary wireline. RU Baker. Attempt to RIH with guns. Line was hanging up in grease tubes. Lay down lubricator, cut line, change out tubes and rehead line. SWI, SDOS.
- 12/04/00 No pressure on tubing. RU Baker. Perforate Atoka using 2-1/8" strip gun loaded with Predator charges as follows: 14,635, 37, 39, 40, 41, 43, 45, 47, 54, 55, 56. Slight blow after perforating. Perforate 14497, 99, 501, 03, 05, 07, 515, 16, 17, 18. No change after shot. Perforate 14573, 75, 77, 79, 81, 87, 88, 89, 90. No change after shot. Perforate run #9: 14558, 59, 60, 61, 62. No change after shot. RD Baker wireline. RU Key swab unit. IFL surface, made 14 runs, recovered 39 bbls 10# brine with EFL at 8100'. LWOTT, SDON. Baker to split cost of fishing perforating guns and clearing charges from tubing.
- 12/05/00 Swabbing. IFL 8100'. Made 5 runs, recovered 10 bbls water. EFL at 9000'. RD lubricator. RU Dowell. Pressure tubing/casing annulus to 3550 psi. Tested lines to top swab valve to 10000 psi. Pumped 20 bbls 20% HCL with NEFE LST agents and clay stabilizers, double inhibited acid, followed by 30 bbls of 2% KCL. Tubing loaded. Pressure increased to 7790 when formation broke. Continue pumping with acid on perfs. Pressure at 6900 broke to 6400 at 4 BPM. Pumped 9240 gals 20% HCL with 150 ball sealers at 5.25 and 6.16 BPM. Pressure average 6500. Pressure had small increases to 7330 psi as balls hit. Flushed with 104 bbls 2% KCL. ISIP 5790, 5 min 5650, 10 min 5614, 15 min 5577. RD Dowell. After 1 hour, pressure on tubing was 5140 psi. 424 BTL. Started flow back to frac tank. Opened on 12/64. 1 hour tubing pressure at 4100, recovered 56 bbls water. 1.5 hour tubing pressure at 830, recovered 86 bbls. 2 hour tubing pressure 430 psi, recovered 115 bbls with acid returns. 2.5 hour tubing pressure at 600 psi with 134 bbls recovered. 3.5 hour tubing pressure 520 with 157 bbls. 4.5 hour tubing pressure 500 psi with 172 bbls recovered. After 10.5 hours, flowing choke open full, tubing 100 psi, recovered total of 255 bbls flush and acid water. Well is surging with good blow to tank. Attempting to light flare at daylight. 255 BTLR of 424 BTL. 169 BTLTR.
- 12/06/00 Well still unloading fluid. Recovered 74 bbls of pinkish fluid. Tubing pressure ranging from 25-350 psi. Ending pressure at report time 45 psi with 3 bbls per hour of recovery. Will put well through stack pac this am. BTLR 329, 95 BTLTR.
- 12/07/00 Well flowing 2-3 BPH with 10-50 psi on tubing with full choke. Make 3 swab runs to 1800' - 7000' - 10,000'. Fluid scattered on each run. Put well through separator established rate of 337 MCF per day. Flowed for 1 hour and rate dropped. Dropped 4 SS and 3 AS. SI for 20 minutes. Unloaded good slug of soapy water. Gas rate increased to 630 MCF per day for 1 hour with tubing pressure at 180 psi. Rate decreased. Opened well to pit. Dropped 4 SS and 2 AS. Shut in for 1 hour. Tubing pressure built to 280 psi. Open to pit with well slugging. Fluid recovery slowed to 1-2 BPH. After 12:00 a.m no fluid recovery. Shut in at 2:00 a.m. Pressure built to 1280 psi in 3.5 hours. Will open well at day light.

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

12/08/00 Well shut in for a total of 7 hours with pressure building to 2057 psi. Dropped 3 SS and 3 AS before opening. Bled tubing and recovered 15 bbls total fluid. Made 2 swab runs to 11,700 and 12,300 recovering 6 bbls total fluid. Tubing pressure fell off, dropped 3 SS and 3 AS. SWI with tubing pressure increasing to 200 psi. Opened tubing and recovered 7 bbls. Made swab run #3 to 12,400 with good return to pit with a slight show of oil. Put well on 20/64 choke with a 198 MCFD rate. Dropped 3 SS and 3 AS. SI with pressure increasing to 210 psi. Opened to pit with 5 bbls recovery. Put well through separator on a 20/64 choke, tubing 120 psi with a 190 MCFD rate. Recovered 48 bbls this 24 hour period. Dropped a total of 6 SS and 6 AS. BLR 401 BTLLTR 23.

12/09/00 Well flowing at a rate of 199 MCFD with 130 psi on tubing on a 20/64 choke. Made 2 swab runs to 10,000' at 12,400'. Fluid scattered on first run and dry on second run. Put well on line, dropping soap sticks as rate decreases. Dropped a total of 15 SS and 10 AS. At report time, well flowing 167 MCFD on a 20/64 choke with 67 psi on tubing. Fluid recovered in this 24 hour period is 18 bbls. BTLR 419, BTLLTR 5. 2 bbls overload.

		Csg	Est	Wtr	Oil	
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>bbls</u>	<u>bbls</u>
						<u>Comments</u>
12/09/00	0000	137	20/64	190	1.50	0.00
	0200	146	20/64	194	2.00	0.00
	0400	135	20/64	199	2.00	0.00
	0500	72	20/64	199	0.15	0.00
	0600	155	20/64	251	0.62	0.00
	0700	105	20/64	217	1.60	0.00
	0800	101	20/64	194	2.00	0.00
	0900	170	20/64	390	0.50	0.00
	1000	112	20/64	202	0.21	0.00
	1100	135	20/64	251	3.00	0.00
	1200	67	20/64	166	0.00	0.00
	1300	22	20/64	91	0.00	0.00
	1400	97	20/64	226	1.00	0.00
	1500	68	20/64	147	0.00	0.00
	1600	67	20/64	136	0.00	0.00
	1800	178	20/64	218	3.12	0.00
	2000	96	20/64	132	0.32	0.00
	2200	70	20/64	244	3.10	0.00
12/10/00	0000	28	20/64	156	0.00	0.00
	0200	71	20/64	186	2.43	0.00
	0400	67	20/64	167	0.00	0.00
				23.55	0.00	

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

12/10/00 Well flowing through separator. Rates ranging from 32 MCFD to 383 MCFD. Dropping soap and acid sticks every four hours. Well unloaded 26 bbls in this 24 hour period. Dropped 23 SS and 8 AS. BTLR 424, BTLLTR 0, 20 bbls overload.

		<u>Csg</u>	<u>Est</u>	<u>Wtr</u>	<u>Oil</u>		
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>bbls</u>	<u>bbls</u>	<u>Comments</u>
12/10/00	0500	135	20/64	276	0.92	0.00	
	0600	85	20/64	372	3.17	0.00	Still purple-pink acid
	0700	245	20/64	463	1.44	0.00	
	0800	63	20/64	186	0.00	0.00	
	0900	10	20/64	167	0.00	0.00	
	1000	5	20/64	383	4.10	0.00	
	1100	165	20/64	362	1.35	0.00	
	1200	72	20/64	167	0.00	0.00	Drop 2 AS, 3 SS
	1300	64	20/64	97	0.00	0.00	
	1400	5	20/64	97	0.00	0.00	
	1500	5	20/64	32	4.38	0.00	
Continued		<u>Csg</u>	<u>Est</u>	<u>Wtr</u>	<u>Oil</u>		
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>bbls</u>	<u>bbls</u>	<u>Comments</u>
12/10/00	1600	179	20/64	381	0.80	0.00	
	1700	78	20/64	296	0.15	0.00	
	1800	40	20/64	142	0.00	0.00	
	1900	5	20/64	84	0.00	0.00	Drop 2 AS, 4 SS
	2000	11	20/64	126	0.00	0.00	
	2100	123	20/64	310	3.87	0.00	
	2200	62	20/64	232	0.91	0.00	
	2300	27	20/64	126	0.00	0.00	Drop 5 SS
12/11/00	0000	192	20/64	320	4.03	0.00	
	0200	77	20/64	118	0.50	0.00	
	0400	18	20/64	84	0.00	0.00	Drop 5 SS,
				25.62	0.00		

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

12/11/00 Well flowing 80-356 MCF. Made 3 swab runs to 10000, 12400, and 12400. Recovered 8 bbls total on runs. Soaped well with 8 foamers, 13 soap sticks, and 7 acid sticks. Recovered a total of 27 bbls in 24 hours. Well currently flowing 80-291 MCF with 65-175 psi tubing pressure on a 20/64 choke. RDMO swab unit.

		Csg	Est	Wtr	Oil		
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>bbls</u>	<u>bbls</u>	<u>Comments</u>
12/11/00	0500	210	20/64	324	5.21	0.00	
	0600	147	20/64	356	2.49	0.00	
	0700	67	20/64	172	0.00	0.00	Swab run #1 to 10000
	0800	92	20/64	200	0.00	0.00	
	0900	71	20/64	191	3.00	0.00	Swab run #2 to 12400
	1000	64	20/64	373	3.18	0.00	
	1100	51	20/64		0.00	0.00	Swab run #3 to 12400
	1200	54	20/64	163	0.00	0.00	
	1300	47	20/64	140	0.00	0.00	
	1400	45	20/64	120	0.00	0.00	
	1500	48	20/64	132	0.00	0.00	
	1600	51	20/64	146	2.70	0.00	
	1700	70	20/64		0.00	0.00	8 foamer, 3AS, shut in 30 mins
	1800	135	48/64		1.50	0.00	Open to pit
	1900	25	48/64		3.40	0.00	
	2000	31	48/64		0.00	0.00	Flowing to pit
	2100	34	48/64		0.00	0.00	
	2200	42	48/64		0.00	0.00	5SS, 2AS
	2300	42	20/64	148	2.00	0.00	Divert to separator
12/12/00	0000	157	20/64	291	3.38	0.00	
	0200	67	20/64	95	0.64	0.00	
	0400	65	20/64	80	0.00	0.00	4SS, 2AS
					27.50	0.00	



# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

12/12/00 Well is flowing 94-491 MCFD with 65-200 psi on tubing on a 20/64 choke. Dropped a total of 18 soap and 10 acid sticks. After dropping soap, well will unload 4-5 bbls. Total recovery, 22 bbls of water. Hourly break down as follows:

	<b>Tbg</b>		<b>Est</b>	<b>Wtr</b>	<b>Oil</b>	
	<b>Time</b>	<b>PSIG</b>	<b>Choke</b>	<b>MCFD</b>	<b>bbls</b>	<b>bbls</b>
12/12/00	0500	10	20/64	60	0.00	0.00
	0600	171	20/64	321	4.94	0.00
	0700	78	20/64	217	1.91	0.00
	0800	71	20/64	164	0.00	0.00
	0900	54	20/64	155	0.00	0.00
	1000	51	20/64	124	0.13	0.00
	1100	122	20/64	336	4.19	0.00
	1200	91	20/64	228	0.20	0.00
	1300	69	20/64	165	0.00	0.00
	1400	54	20/64	129	0.00	0.00
	1500	52	20/64	94	0.00	0.00
12/12/00	1600	74	20/64	114	1.37	0.00
	1700	200	20/64	491	4.89	0.00
	1800	87	20/64	310	0.14	0.00
	1900	43	20/64	139	0.00	0.00
	2000	85	20/64	155	2.65	0.00
	2100	192	20/64	320	1.65	0.00
	2200	90	20/64	238	0.00	0.00
	2300	81	20/64	205	0.00	0.00
12/13/00	0000	76	20/64	179	0.00	0.00
	0200	67	20/64	104	0.00	0.00
	0400	65	20/64	94	0.00	0.00
				22.07	0.00	

## Water Analysis after recovering 360 bbls:

Specific gravity: 1.073 at 76 degrees F, ph 6.60.

<b>Anions</b>	<b>mg/l</b>	<b>(ppm)</b>
Chlorides	60974	56826
Sulfates	0	0
Carbonates	0	0
Bicarbonates	540	503

## Cations:

Calcium	16360.80	15248
Magnesium	3596.40	3352
Iron	500.00	466
Sodium	13748.00	12813
Total dissolved solids:	95719.13	

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

12/12/00 Water Analysis after recovering 440 bbls:  
Specific gravity: 1.050 at 66 degrees F, ph 6.30.

<u>Anions</u>	<u>mg/l</u>	<u>(ppm)</u>
Chlorides	38995	37138
Sulfates	0	0
Carbonates	0	0
Bicarbonates	280	267

**Cations:**

Calcium	8982.40	8555
Magnesium	729.00	694
Iron	300.00	286
Sodium	<u>13455.00</u>	12814
Total dissolved solids:	62741.40	

12/13/00 Well is flowing 96-474 MCFD with 50-310 psi on tubing. Dropped 25 soap sticks and 10 acid sticks in the last 24 hours. Well unloads 5-6 bbls water after each soap drop. Well produced 22.67 bbls water. Set 1 lined frac tank. Sent one frac tank to yard to steam and return. Eddins Walcher put 9900 gals off-road diesel in frac tank. Will acid frac Atoka on 12/14/00. Hourly flow back as follows:

	<u>Tbg</u>		<u>Est</u>	<u>Wtr</u>	<u>Oil</u>	
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>bbls</u>	<u>bbls</u> <u>Comments</u>
12/13/00	0500	39	20/64	57	0.00	0.00
	0600	155	20/64	119	2.67	0.00
	0700	220	20/64	424	3.60	0.00
	0800	78	20/64	228	0.14	0.00
	0900	61	20/64	109	0.00	0.00
	1000	62	20/64	124	0.00	0.00 5SS, 2AS
	1100	41	20/64	50	0.00	0.00
	1200	310	20/64	474	6.25	0.00 Very strong cycle
	1300	105	20/64	241	0.00	0.00 Bypass to pit
	1400	10	20/64		0.00	0.00
	1500	4	20/64			0.00 5SS, 2AS
	1600	145	20/64	381	5.00	0.00
	1700	52	20/64	202	0.00	0.00
	1800	38	20/64	174	0.00	0.00
	1900	15	20/64	58	0.00	0.00
	2000	15	20/64	58	0.00	0.00 5SS, 2SS
	2100	95	20/64	289	1.40	0.00
	2200	135	20/64	462	3.60	0.00
	2300	65	20/64	156	0.00	0.00
12/14/00	0000	64	20/64	134	0.00	0.00
	0200	55	20/64	96	0.00	0.00
	0400	50	20/64	96	<u>0.00</u>	<u>0.00</u> 5SS, 2AS
				22.67	0.00	

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

12/14/00 Well is flowing 50-596 MCFD with 61-197 psi on a 20/64" choke. Dropped 5 SS, 2 AS. Recovered 9 BW. (Best recovery gas and water after dropping soap.) SI @ 9:00 a.m. RU guardian tree saver. Schlumberger mixed diesel and acid in frac tanks. RU to treat well w/33,700 gallons SXE (23,800 28% HCL + 9900 gallons diesel), 2000 gal 20% HCL w/150 7/8" ball scalars. After 4 hrs SI tubing pressure built to 700 psi. Test lines to 11,500 psi. Pressure tubing casing annulus to 3500 psi. Start job @ 10 BPM with pressure increasing to 10,290 after 82 barrels away. MAX pressure 10,560 @ 8 BPM w/160 barrels pumped. SD at 197 barrels away with 10,000 psi @ 8 BPM due to ball drop problems. ISIP @ 5600. Continue job at 8 BPM with pressure at 9000 psi. With 315 barrels pumped pressure increased to 10,100 at 7.5 BPM. Pumped balance job with ball action of 200-250 psi as each set hit. Last pressure and rate before switching to 20% acid - 10,250 psi at 7.3 BPM. Surged ball with 20% acid at packer. Pressure decreased with 20% and flush to 8150 at 7.5 BPM. ISIP 5850 5 min 5810 10 min 5792 15 min 5774/TLTR 954 barrels. RD Schlumberger and Tree Saver. After 2 hours tubing pressure at 5540. Start bleeding casing to 0 while flowing back. Opened well at 6:30 pm on a 12/64".

		<u>Tbg</u>		<u>Cum</u>
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>Water</u>
12/14/00	0630	5540	SI	0.00
	0700	5300	12/64	7.5
	0800	4200	16/64	110.5
	0900	2100	16/64	100.00
	1000	1650	16/64	46
	1100	1300	20/64	35
	1200	1050	20/64	35
	0100	750	20/64	25
	0300	450	20/64	24
	0500	190	30/64	23

TLTR 954 barrels, TR 406, TLLTR 548

12/15/00 Flowing back acid job. Well unloaded 240 bbls of acid and chemical the past 24 hours. Dropped 10SS and 4AS to unload well. Rate on gas range from 185 MCF to 1266 MCFD with 131 psi to 415 psi on tubing. Flowed well as follows:

	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>Est</u>	<u>Cum</u>	
12/15/00	0500	140	30/64		23.00	429.00
	0600	140	30/64		18.00	447.00
	0700	415	30/64	492	39.50	486.50
	0800	340	30/64	1206	29.25	515.75
	0900	310	40/64	767	9.58	525.33
	Continued		<u>Tbg</u>	<u>Est</u>	<u>Cum</u>	
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>Water</u>	<u>Water</u>
12/15/00	1000	105	40/64	594	4.51	529.64
	1100	65	48/64	330	6.00	535.84
	1200	18	48/64		5.00	540.84
	1300	10	48/64		0.00	540.84
	1400	295	SI		5.00	545.84
	1500	310	48/64	773	9.00	554.84
	1600	35	48/64		7.00	561.84
	1700	30	48/64		3.00	564.84

# **Matador Operating Company**

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

	1800	315	48/64	788	5.81	570.65	Well unloading
	1900	115	48/64	485	12.58	583.23	
	2000	190	48/64	527	4.74	587.97	Acid - water
	2100	68	48/64	291	7.10	595.07	
	2200	164	48/64	369	6.74	601.81	100% BS&W
	2300	131	48/64	185	7.55	609.36	
12/16/00	0000	152	48/64	465	7.20	616.56	Acid - water
	0200	130	48/64	313	14.58	631.14	
	0400	120	48/64	354	14.98	646.12	

TLTR 954 barrels, TR 646, TLLTR 308

12/16/00 Flowed well until 3:00 pm. Blew down and RIH with swab to 8000', 2nd run to 8000', 3rd run to 9500'. Recovered 33 bbls with good gas rates following swab. Dropped 19SS and 8AS in last 24 hours. Recovered total of 108 bbls. Flowed well as follows:

		<u>Tbg</u>		<u>Est</u>		<u>Cum</u>	
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>Water</u>	<u>Water</u>	
12/16/00	0500	65	48/64	203	5.50	651.62	
	0600	115	48/64	427	5.25	656.87	
	0700	75	48/64	304	5.00	661.87	4SS, 2AS
	0800	270	SI		6.25	668.12	Open to sep
	0900	172	48/64	533	14.00	682.12	Divert to tank
	1000	45	48/64		5.00	687.12	Divert to sep
	1100	110	48/64	570	8.75	695.87	5SS, 2AS
	1200	60	48/64		1.25	697.12	Swab rig on loc, RU on tree
	1300	15	48/64		0.00	697.12	
	1400	140	48/64	647	11.93	709.05	Flow back soap, blow dun for swab
	1500	155	48/64	742	10.25	719.30	Swab run #1
	1600	210	48/64	1039	12.50	731.80	Swab run #2, FL at 4000
	1700	235	48/64	1136	10.00	741.80	Swab run #3, FL at 5500
	1800	91	48/64	388	4.40	746.20	
	1900	74	48/64	388	2.00	748.20	100% BS&W
	2000	65	48/64	291	0.00	748.20	
	2100	67	48/64	273	0.00	748.20	
	2200	62	48/64	261	0.00	748.20	5SS, 2AS
	2300	75	48/64	261	1.00	749.20	
12/17/00	0000	95	48/64	334	5.30	754.50	
	0200	62	48/64	269	0.00	754.50	
	0400	65	48/64	113	0.00	754.50	5SS, 2AS
12/16/00	Continued						
	TITR 954 barrels, TR 754, TLLTR 200						

# Matador Operating Company

## Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

12/17/00 Well is flowing 89 MCFD at report time. Made 7 swab runs recovering 101 bbls during swab. Pulling swab from 12000'. Dropped 10SS and 4AS last 24 hours. Flowed and swabbed well as follows:

	<u>Time</u>	<u>Tbgs</u> <u>PSIG</u>	<u>Choke</u>	<u>Est</u> <u>MCFD</u>	<u>Water</u>	<u>Cum</u> <u>Water</u>	
12/17/00	0500	110	48/64	324	4.00	758.50	
	0600	60	48/64	225	0.00	758.50	
	0700	55	48/64	128	0.00	758.50	
	0800	50	48/64	113	1.50	760.00	Swab #1
	0900	120	48/64	647	16.50	776.50	Swab #2
	1000	135	48/64	644	8.25	784.75	Swab #3
	1100	70	48/64	451	11.25	796.00	Frac balls in tree choke, snub valve, dumps/clean out
	1200	40	48/64	290	8.50	804.50	By-pass to tank
	1300	165	48/64		8.50	813.00	Swab #4
	1400	120	48/64		9.00	822.00	Divert flow to sep
	1500	117	48/64	928	9.00	831.00	Swab #5
	1600	140	48/64	455	9.00	840.00	Swab #6
	1700	125	48/64	381	13.00	853.00	Swab #7
	1800	55	48/64	171	6.50	859.50	
	1900	50	48/64	99	0.00	859.50	5SS, 2AS
	2000	50	48/64	99	0.00	859.50	
	2200	45	48/64	99	0.00	859.50	
12/18/00	0000	30	48/64	115	0.00	859.50	
	0200	20	48/64	92	0.00	859.50	
	0400	20	48/64	89	0.00	859.50	

TLTR 954 barrels, TR 859, TLLTR 95

12/18/00 At report time, well is flowing 139 MCFD with 0 fluid recovery. Made 9 swab runs, recovering a total of 109 bbls in the last 24 hours. Dropped 18 SS and 8 AS. Hourly breakdown as follows:

	<u>Time</u>	<u>Tbgs</u> <u>PSIG</u>	<u>Choke</u>	<u>Est</u> <u>MCFD</u>	<u>Water</u>	<u>Cum</u> <u>Water</u>	
12/18/00	0600	18	48/64	89	0.00	859.50	5SS, 2AS
	0800	45	48/64	144	6.75	866.25	Change to 1.25 orifice
	0900	60	48/64	149	8.00	874.25	
	1000	160	48/64	349	7.00	881.25	Swab from 9000
	1100	60	48/64	257	5.10	886.36	Bypass sep to tank, swab from 9500
	1200	85	48/64		28.00	914.35	Swab from 9500', two runs
	1300	140	48/64		25.50	939.85	Swab from 12400, two runs
	1400	40	48/64		11.50	951.35	Swab from 12400
	1500	55	48/64		4.00	955.35	Swab from 11000
	1600	65	48/64		6.50	961.85	Final swab from 12400
	1700	28	48/64	246	7.50	969.35	Divert flow to sep, .875 orifice
	1800	28	48/64	231	0.00	969.35	5SS, 2AS
	2000	25	48/64	161	0.00	969.35	
	2200	25	48/64	148	0.00	969.35	
12/19/00	0000	25	48/64	139	0.00	969.35	4SS, 2AS
	0200	23	48/64	135	0.00	969.35	
	0400	23	48/64	139	0.00	969.35	4SS, 2AS

# Matador Operating Company

## Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

TLTR 954 barrels, TR 954, TOL 14. Flint clearing right-of-way for gas line. Hauled 260 bbls to disposal. Crew running 2-7/8" tubing for flow line to Red Hills #4.

12/19/00

At report time, well is flowing 68 MCFD with 2 bbls fluid recovery. Made 10 swab runs, recovering a total of 81 bbls in the last 24 hours. Dropped 8 SS and 4 AS. Hourly breakdown as follows:

	<u>Tbg</u>		<u>Est</u>				
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>Water</u>	<u>Oil</u>	
12/19/00	0600	70	48/64	326	4.88	0.33	Switch to tank #1
	0700	18	48/64	92	1.04	0.06	
	0800	15	48/64	77	0.00	0.00	
	0900		48/64		14.50	0.00	Swab #1 from 9000
	0920		48/64		4.50	0.00	Swab #2 from 5400
	1000		48/64		6.00	0.00	Swab #3 from 11000
	1030		48/64		7.50	0.00	Swab #4 from 11000
	1100		48/64		10.50	0.00	Swab #5 from 11000
	1200		48/64		2.50	0.00	Swab #6 from 11000
	1235		48/64		11.50	0.00	Swab #7 from 12400
	1330		48/64		1.25	0.00	Swab #8 from 12400
	1410		48/64		4.75	0.00	Swab #9 from 12400
	1530		48/64		8.00	0.00	Swab #10 from 12400
	1600	40	48/64	70	0.08	0.00	4SS, 2AS
	1700	8	48/64	62	0.00	0.00	
	1800	8	48/64	51	0.00	0.00	
Continued							
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>Water</u>	<u>Oil</u>	
12/19/00	2000	20	48/64	51	0.00	0.00	
	2200	20	48/64	46	0.00	0.00	
12/20/00	0000	20	48/64	51	0.00	0.00	
	0200	18	48/64	50	0.00	0.00	4SS, 2AS
	0400	22	48/64	68	4.16	0.00	

TLTR 954 barrels, TR 954, TOL 95. Flint clearing right-of-way for gas line. Hauled 260 bbls to disposal. Crew running 2-7/8" tubing for flow line to Red Hills #4.

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

12/20/00 At report time, well is flowing 65 MCFD. Recovered a total of 37 bbls in the last 24 hours. Dropped 4 SS, 2 AS. Flowed well as follows:

	<u>Tbg</u>		<u>Est</u>			
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>Water</u>	<u>Oil</u>
12/20/00	0600	22	48/64	45	0.13	0.00
	0700	20	48/64	67	.018	0.00
	0800	30	48/64	324	4.13	0.00
	0900	18	48/64	96	1.89	0.00
	1000	26	48/64	219	3.08	0.00
	1100	26	48/64	63	0.03	0.00
	1200	33	48/64	63	0.57	0.00
	1300	80	48/64	103	5.96	0.00
	1400	40	48/64	327	3.00	0.00
	1500	20	48/64	48	0.12	0.00
	1600	10	48/64	19	0.00	0.00
	1700	82	48/64	293	9.38	0.00
	1800	28	48/64	79	0.10	0.00
	2000	35	48/64	49	0.57	0.00
	2200	45	48/64	96	1.20	0.00
12/21/00	0000	40	48/64	259	5.65	0.13
	0200	50	48/64	75	0.00	0.00
	0400	65	48/64	85	1.30	0.00

132 TOL. Flint started digging ditch for gas pipeline.

12/21/00 At report time, well is flowing 164 MCFD. Recovered a total of 55 bbls in the last 24 hours. Dropped 8 SS, 4 AS. Well started cutting some oil during the last 24 hours. Flowed well as follows:

	<u>Tbg</u>		<u>Est</u>			
	<u>Time</u>	<u>PSIG</u>	<u>Choke</u>	<u>MCFD</u>	<u>Water</u>	<u>Oil</u>
12/21/00	0600	20	48/64	109	7.31	0.00
	0700	25	48/64	76	0.00	0.00
	0800	25	48/64	63	0.05	0.00
	0900	38	48/64	71	0.40	0.00
	1000	120	48/64	207	4.82	4.00
						Sample shows 50% oil, CL = 91,000 ppm
	1100	20	48/64	180	0.00	0.00
	1200	28	48/64	85	0.00	0.00
	1300	20	48/64	70	0.00	0.00
	1400	85	48/64	153	2.70	0.30
	1500	95	48/64	195	6.21	0.67
	1600	35	48/64	109	1.69	0.00
	1700	25	48/64	47	0.00	0.00
	1800	20	48/64	38	0.00	0.00
	2000	25	48/64	245	14.20	1.55
	2200	50	48/64	62	0.00	0.00
12/22/00	0000	30	48/64	203	9.65	1.02
	0200	20	48/64	75	0.00	0.00
	0400	80	48/64	164	8.20	0.55
				55.23		8.09

## Matador Operating Company

### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

187 TOL. Flint digging ditch for gas pipeline. Collected gas, oil and water samples.  
Sent to lab.

12/22/00

At report time, well is flowing 164 MCFD. Recovered a total of 28 bbls for 10 hours.  
Dropped 6SS and 3AS. SWI at 3:00 pm and RD test equipment. Last hour, well flowed  
112 MCFD. Recovered water, oil and gas samples. 215 TOL. Flint digging ditch for  
gas pipeline.

#### Water Analysis

Results reported as parts per million unless stated

Barium as Ba	0.00
Carbonate alkalinity PPM	0.00
Bicarbonate alkalinity PPM	484.00
PH at lab	6.36
Specific gravity at 60 deg F	1.05
Magnesium as Mg	17806.00
Total hardness at CaCO <sub>3</sub>	30700.00
Chlorides as Cl	39889.00
Sulfate at SO <sub>4</sub>	300.00
Iron as Fe	19.50
Potassium	2.20
Hydrogen Sulfide	0.00
Rw	0.18 at 23.0C
Total dissolved solids	72250.00
Calcium as Ca	12895.00
Nitrate	0.00

Note: Sample could be partially affected by soap and acid sticks in well at time of collection.

#### Gas Analysis

<u>Component</u>	<u>MOL %</u>
Hydrogen Sulfide	0.000
Nitrogen	0.727
Carbon dioxide	2.222
Methane	95.290
Ethane	1.274
Propane	0.162
I-Butane	0.025
N-Butane	0.040
I-Pentane	0.001
N-Pentane	0.001
Hexane Plus	<u>0.258</u>
	100.000

Molecular weight: 17.1984

BTU/CU.FT. Dry	1004
At 14.650 Dry	1000
At 14.650 Wet	983
At 14.73 Dry	1006
At 14.73 Wet	988



## Matador Operating Company

### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

Specific Gravity, calculated: 0.598

12/27/00	Shut in
12/28/00	Shut in
12/29/00	Shut in
12/30/00	Shut in
12/31/00	Shut in
01/01/01	Shut in
01/02/01	Shut in
01/03/01	Shut in
01/04/01	Shut in
01/05/01	Shut in
01/06/01	Shut in
01/07/01	Shut in
01/08/01	Shut in
01/09/01	Shut in
01/10/01	RU flow back equipment. Tubing pressure 7900 psi casing pressure 3350 psi. Opened well on a 10/64" choke at 1.8 to flare. After 1 hour, pressure 6900 @ 1.5 million, after 2 hours 5245 at 1.15, after 3 hours 4545 at 860 MCF and shut well in.
01/11/01	Shut in
01/12/01	Shut in
01/13/01	Shut in
01/14/01	Shut in
01/15/01	Shut in
01/16/01	Shut in
01/17/01	Shut in
01/18/01	Shut in
01/19/01	Shut in
01/20/01	Shut in
01/21/01	Shut in
01/22/01	Shut in
01/23/01	Shut in
01/24/01	Shut in. 8200 tbg pressure, 3600 csg pressure at 3:00 pm.
01/25/01	Shut in
01/26/01	Purge 2-7/8" line. Place well on production. Produced 300 MCFD and 70 BW in 16 hours
01/27/01	300 MCFD and 74 BW
01/28/01	100 MCFD and 69 BW, 1000 FTP
01/29/01	61.21 bbls water, 70 MCF
01/30/01	60.3 bbls water, 70 MCF
01/31/01	63 bbls water, 30 MCF
02/01/01	54 bbls water, 20 MCF
02/02/01	50 bbls water, 20 MCF
02/03/01	44 bbls water, 20 MCF
02/04/01	45 bbls water, 20 MCF
02/05/01	43 bbls water, 20 MCF
02/06/01	Trucks moved frac tank. Welder and crew started welding 2" XX pipe for flowline.

## Matador Operating Company

### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

02/10/01 60 water, flowline froze, gas going to flare

02/12/01 Blow down tubing in preparation to re-complete to Wolfcamp. Rig expected on location 2/13/01.

02/13/01 Set matting boards. MIRUPU.

02/14/01 Open well to tank by-passing production vessel. Tubing started with 200 psi and bled down to 0 psi. In 19.5 hrs, well unloaded 120 bbls water with small blow of gas.

02/15/01 Pumped 45 bbls and tubing loaded. Pumped another 10 bbls with pressure climbing to 600 psi. SD pump and pressure fell. ND tree, pulled wrap around, NU 7-1/16" 15K BOP with 7-1/16" 10K x 15K double stud. Started attempting to release Smith seal assembly with latch. Released TOSSD several times attempting to balance tubing and casing. Worked assembly for 4 hrs with no movement. Seven hours after pumping water, the well started unloading. Connected tubing to pit and casing to tank. Well unloaded for 2 hours. LWOTT, SDON. Received power swivel.

02/16/01 Well is open to tank. PU power swivel and released Smith latch down seal assembly. Latch started rotating with 10 points pulled over string weight. String weight is 86,000. Seals pulled 10 points over until they were out of PBR. Pulled 15 stands and well started unloading. RIH with tubing 1 joint off bottom. Waited on water. Circulated hole with 600 bbls 10# brine. Opened well to test tank. Well flowed back 37 bbls water in 7 hrs.

02/17/01 Well flowed back 161 bbls in 24 hrs.

02/18/01 Well flowed back 38 bbls in 24 hrs.

02/19/01 Well flowed back 27 bbls in 7 hrs. Well flowed back a total of 263 bbls in 62 hrs.

02/19/01 POH with tubing, seal assembly and sent to Smith for redress. NU 15K x 10K double stud and 10K spool x Schlumberger 10K lubricator. RIH with junk basket gauge ring to 14500. RIH with 4-1/2" HOWCO easy drill CIBP and set at 14430' K.B. Loaded hole with 90 bbls 10# brine. Worked air and gas out of casing. Pressured casing to 3100 psi testing CIBP - ok. Bled off casing. Closed blinds and open casing to tank with blow.

02/20/01 Well is dead. Pick up redressed seal assembly, 2 joints tubing with MX nipple and test to 7500 psi. RIH with balance tubing testing to 10000 psi above slips. Sting into PBR and pulled 25 points over weight. Space tubing with 8 points compression. SWI, SDON. Tubing detail tomorrow. Roustabout crew and backhoe set 3 phase separator, ran 2 - 2" poly lines and plumbed stock tanks.

02/21/01 Mix 220 gals Pro-Kem PF-40 packer fluid in 500 bbls 10# brine and displace hole with 460 bbls. Engage TOSSD. Tested tubing, seal assembly and CIBP to 5000 psi - ok. ND BOP, install BO2 bushing and 10K tree. Tested tree and BO2 bushing to 10,000 psi - ok. Installed wrap around, landed tree with 8 points of compression on seal assembly. Tested wrap around and ring gasket to 10,000 psi - ok. RDMOPU. Perforating set up for Monday. Roustabout crew connected 3 phase separator.

02/22/01 Waiting on perforating equipment.

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

02/23/01	<b><u>Tubing detail</u></b>
	Smith 5" OD Seal Assembly with 4 Sets Packing
	OD 4-15/16 ID 3-1/2" with muleshoe bottom 10.44
	2.313 MX Profile with TOSSD 3.07
	2-7/8" EUE 8rd L-80 6.5#/foot 31.85
	2.313 MX Profile Nipple 1.21
392 jts	2-7/8" EUE 8rd L-80 6.5 tubing 12465.11
	2 - 2-7/8" EUE 8rd L-80 6.5#/foot Subs 10.13- 4.16 14.29
	2-7/8 EUE 8rd L-80 6.5#/foot 31.85
	12547.38
	Top of tubing head KB + 1' below GL 21.00
	1256838
	Compression on TOSSD -2.00
	Top of liner hanger 12566.38
	10.44
	End of muleshoe 12576.82
02/26/01	MIRU Schlumberger wireline, crane truck and full 10K lubricator with grease injector. Will perforate with 2.125" strip guns loaded 1 SPF, 0 degree phase, Power Jet charges (14.4 gram charges for .32" x 30.4" hole). TIH with 2.125" gauge ring, CCL, and wireline to 13700'. TOH with same. TIH with CCL and guns. Perforate 13687', 89', 13653', 55', 57', 13618', 20', 22' in three runs. SITP after last run at 300 psi. SWI, SDON.
02/27/01	SITP 1100 psi. Continue perforate using same charges as previous report. Perforate: (1) 13596' (other shots this run failed), (2) 13555, 57, 59, 61, 73, 75, 77, (3) 13526, 28, 30, 32, 34, 36, 38, 40, (4) 13500 (other shots failed) in 4 runs. Pressure varies throughout day between 900 and 1000 psi. Fluid level at 150'. SWI, SDON.
02/28/01	SITP: 2000 psi. Continue perforating using same charges as previous report. Perforate: (1) 13502' (other shots this run failed), (2) 13598, 600, 07, 09, (3) 13477, 79, 81, 83, 85, 87, 89, 95, 97 in three runs. Pressure stable throughout the day at 2000 psi. Fluid level at 300'. SWI. SDON.
03/01/01	SITP 2000 psi. Continue perforating using same charges as previous report. Perforate: (1) 13457, 59, 64, 66, 68, 70, (2) 13447, 49, 51, 53, (3) 13403, 05, 07, 09, 18, 20, 22, 24, in three runs. Pressure throughout day at 2000 - 1600 psi. Fluid level at 300'. SWI, SDON.
03/02/01	SITP 2000 psi Flow well to pit to clear seal grease from tubing bore (2 bbls grease + or - , and 1 BW, SITP 100 #). Continue perforating using same charges as previous report. Perforate: (1) 13386, 88, (2) 13360, 62, 64, (3) mis-fire, (4) mis-fire, in four runs. Pressure throughout day at 100 - 400 psi. FL at surface. SWI, SDOW. Note: Schlumberger will load strip guns with improved components.
03/05/01	Tubing pressure 2400 psi. Rig Schlumberger truck back. Truck was used on a job over the weekend. RIH with perforating strip with tools stopping at 12500'. Unable to work past 12500. POH and found the de-centralizer bent. The bend in the tool was causing the charge to rub. The primer cord was damaged. The spare magnet was not dressed for service. Prepared balance guns for a round nosed guide on bottom. SDON.

## Matador Operating Company

### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

- 03/06/01      Tubing pressure 2600 psi. Perforated 13504, 10, 12. Second run perforate 13334, 36, 38. Third run perforate 13368, 70, 72. Rigged up fourth shot and starter went out on grease trailer. SWI, SDON.
- 03/07/01      Tubing pressure 2500 psi. Perforated 13,251, 53, 55, 57, 59. Second perforate 13216, 18, 20, 22. Third perforated 13,096, 98, 100, 02, 04, 06, 08. SWI, SDON.
- 03/08/01      Tubing pressure 2500 psi and casing pressure 2100 psi. Perforated 13191, 93, 96, 98, 13200. Second perforate 13120, 22, 24, 26, 28, 30. On each run, pressure on tubing built to 2900-3000 due to line displacement. Install 3" rental meter run in sales line to Red Hills # 4. Total perforating in well to date: 13096, 98, 100, 102, 104, 106, 108, 13120, 22, 24, 26, 28, 30, 13191, 93, 96, 98, 13200, 13216, 18, 20, 22, 13251, 53, 55, 57, 59, 68, 70, 72, 13334, 36, 38, 60, 62, 64, 86, 88, 13403, 05, 07, 09, 18, 20, 22, 24, 47, 49, 51, 53, 57, 59, 64, 66, 68, 70, 77, 79, 81, 83, 85, 87, 89, 95, 97, 13500, 02, 04, 10, 12, 26, 28, 30, 32, 34, 36, 38, 40, 55, 57, 59, 61, 73, 75, 77, 96, 98, 13600, 07, 09, 18, 20, 22, 53, 55, 57, 87, 89. 98 holes. Left well shut in overnight.
- 03/09/01      Tubing pressure 2900 psi and casing pressure 2400 psi. MIRUSW. Bled tubing pressure to slight blow in 10 mins with no fluid to surface. Start swabbing. IFL 300', made 10 runs, recovered 60 bbls. EFL 9200'. Tubing on a vacuum after each run. LWOTT SDON. After swabbing, the tubing pressure was 100 psi with fluid still on backside. Finished installing test meter run.
- 03/10/01      Swab 12 BW in 2 runs. Observe well for 1 hour with no entry. LWOTT. SDOS.
- 03/12/01      FTP 0#, SICP vacuum. Tubing open to tank, no gas blow, no fluid this am. Continue swab. FL first run at 6400'. Recover 21 BW. FL at 12400'. Made one run each hour, recovered one bbl per run. LWOTT. SDON. Total fluid recovered this report: 24 bbls. Note: sent water sample to Schlumberger lab.
- Water Analysis:**
- | Anions       | ppm    |
|--------------|--------|
| Chlorides    | 221563 |
| Sulfates     | 1111   |
| Carbonates   | 0      |
| Bicarbonates | 125    |
- 
- | Cations   | ppm  |
|-----------|------|
| Calcium   | 2673 |
| Magnesium | 203  |
| Iron      | 42   |
- 03/13/01      FTP 0#, SICP vacuum. Tubing open to tank, no gas blow, no fluid this am. Continue swab. FL first run at 9100'. Swab 10 BW. FL at 12400'. Made one run each hour, recovered one bbl per run. LWOTT. SDON. Total fluid recovered this report: 15 bbls. Pro Well Testers found annular fluid level at 977'. Casing remains on vacuum. Let pressure equalize, shut in 2 hours, on vacuum. Swab volume is equal to annular volume indicating communication between tubing and casing.

# Matador Operating Company

## Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

- 03/14/01 FTP 0#, SICP vacuum. Tubing open to tank, no gas blow, no fluid this am. Continue swab. FL first run at 11000'. RD Key. MIRU Basic well service. ND well head. NU BOP. Load tubing with 70 bbls brine water. RU 3.5 swivel. Work 90 min with all combinations of torque and weight to release seal assembly. Release at 12 points tension and 2500# torque. Load well with 30 bbls additional brine water. Begin TOH with tubing and seal assembly. SWI, SDON.
- 03/15/01 FOH with tubing and seal assembly. Chevron seals were cut in several places. Changed seals, removed liner latch and on-off tool. Installed 2-7/8" X over on seal assembly. PU seal assembly, 12' 2-7/8" L-80 sub, 7" Arrow set 1 packer, TOSSD with 2.31 "F" nipple and one joint 2-7/8" tubing. Tested to 7000 psi and Vam thread on top of seal assembly leaked. Broke connection, inspected, re-doped and made up. Tested to 7000 psi - ok. RIH with tubing, testing to 10000 psi above slips leaving 60 stands in derrick. SWI, SDON. Note: the joint of tubing on top of the TOSSD was gaulded. The connection has an AB mod gasket in the collar. The on-off nipple was grooved above the seal area. The Vam thread above the seal assembly leaked at 7000 psi and the seals were cut on the Chevron packing. These are all possible failure areas for communication.
- 03/16/01 FIH with tubing. Located top of liner with 5-1/2" X-Over on top to seal assembly. Set 7" packer and tested to 1500 psi on tubing/casing annulus. Released on/off tool and circulated 475 bbls 10# brine with 220 gals Pro-Kem PK-40 packer fluid. Engage TOSSD pulled 25 points over, ND BOP, install wrap around, BO2 bushing and tree. Tested tree and BO2 bushing to 10,000 psi - ok. Land tree and tested wrap around and ring gasket to 10,000 psi - ok. Tubing landed with 10 points on packer. RU to swab. SDON.
- Tubing detail:**
- |   |       |                 |
|---|-------|-----------------|
| Smith Seal Assembly with 4 sets packing | 8.19  |                 |
| 5-1/2" x 2 7/8" X-over with Vam thread  | 1.00  | 12567.84        |
| 2-7/8" EUE 8rd L-80 Sub                 | 12.25 | 12555.59        |
| 7" x 2-7/8" AS-1X Packer                | 7.15  | 12548.44        |
| 2-7/8" x 2.313 "F" nipple               | 0.20  |                 |
| 2-7/8" x 5-15/16 OD T-2 on/off tool     | 1.47  | 12546.77        |
| 394 jts 2-7/8" EUE 8rd L-80 tubing      |       | <u>12528.77</u> |
| 394 jts total tubing and tools          |       | 12559.03        |
| KB + 1' below ground Level              |       | <u>21.00</u>    |
|   |       | 12580.03        |
| Less 3' Compression                     |       | <u>-3.00</u>    |
| End of Mule Shoe Seal Assembly in Liner |       | 12577.03        |
- 03/17/01 Tubing pressure 140 psi. Filled tubing/casing annulus with 3 gals packer fluid. Monitor casing with swab. Made 9 runs. IFL surface, EFL 11,000'. Recovered approximately 65 bbls water with slight blow. LWOTT, SD.
- 03/19/01 Pulling unit checked FL with swab at 11000'. No entry overnight. RDMOPU. Move to yard. RD PU off of 6 lines and RU on 4 lines. Shut in. Waiting on acid equipment.

## Matador Operating Company

### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

- 03/20/01 RU Schlumberger to treat well with 15000 gals 15% HCL, LST, DI **acid** and 200 ball sealers. Install tree saver. Pressured tubing/casing annulus to 1000 psi. Tested lines to 12000 psi. Started on **acid** with tubing loading at 62 bbls away with pressure increasing to 6644 psi. Annulus pressure climbing to 3496 with 90 bbls away. Bled annulus to 2500 psi with 100 bbls pumped. Pressure on annulus continued to climb after bleeding. Ball action with 110 bbls in 6575 to 6877 psi. Continued pumping acid bleeding annulus several times to lower pressure. With 160 bbls of **acid** at 7129 tubing and 3713 annulus, switch to flush. Pumped 88 bbls of flush at 10 BPM at 9867 psi ending pumping pressure. ISIP 6400 psi tubing/casing 3150, 5min 6218 tubing/casing 3182, 10 min 6021 tubing 3310 casing. Bled tubing for 9 mins with pressure falling to 1900 psi tubing and 1786 on annulus. SWI in 2 mins, pressure increased to 3500 psi tubing and 1951 annulus. RD tree saver and Schlumberger. RU to flow back. Tubing pressure 3200 psi, casing 2500 psi. Opened to pit on 12/64 with pressure falling together. Flowed flush water to pit. Flow slowed to pit. RIH with swab. IFL surface pulled from 1800', 2nd 600 pulled from 2800, 3rd 800 pulled from 3300. Well started unloading. At 3:37 acid to surface open to pit through open choke casing pressure at 600 psi. At 4:15 casing at 0 with 20 psi on casing. Started cutting oil. RU to send to frac tank. Well is heading up with slugs of oil and hot acid. After 13 hours, production to tank was 27 bbls oil and 66 bbls acid and water. When well heads gas rate is 300-400 MMCFD, heads last 30 mins to 1.5 hours. Last head lasted 2 hours and unloaded 18 bbls fluid.
- 03/21/01 Well flowing to test tank in 2-3 hr surges. RIH w/swab 1FL 3300' pulled from 5600'. Casing on slight vacuum. RDMOSU MIRUPU. RIH w/swab 1st run: FL 5600' pulled from 7500'. Good gas blow after run. Next hr 2nd run: FL 6600' pulled from 8000'. Left well flowing through test equipment. Gas rates 400-800 mcf, open choke @ 50-150 psi. Csg on slight vacuum. Shot FL on annulus @ 22 jts (700' from surface).
- 24 hr production: 95 BO , 22 BW.
- 03/22/01 6:00 a.m. - 8:00 a.m. well unloaded 9 bbls w/good gas rate. Well died. RIH w/swab 1FL 8,000' pulled f/10,000'. 10:00 a.m. FL 4,900', pulled f/6,900'. Made swab 11:00, 12:00, 1:00, 3:00, 4:00, 5:00. Each run FL was @ 4,900'. Recovered 60% oil on each run. 5:00 p.m. recovery is 23 BO, 18 BW in 11 hrs. Shot FL on csg @ 1:00 a.m. @ 38.5 jts (1,200'); @ 5:00 a.m 42.5 jts (1,350'). Csg on slight vacuum. Well flowing to test equipment. Well surging 1.5 hr-3hr w/2-3 BO @ 6:00 a.m. 3-23-01. 24 hr production: 54 BO; 36 BW.
- 03/23/01 The well is producing to test tank in heads about 2 hours apart. Shot FL on annulus at 8:45 am showing 56.5 joints or 1788' to fluid. In 15-3/4 hours, FL has dropped 423' or 12.3 bbls. Water samples showed 189,000 ppm Chlorides PH of 5.5. gas gravity .77. RU Pro Slickline. SWI at 9:25 am. RIH with 2.25 gauge ring to clear seal assembly. RIH with 2.313 "FSG" blanking plug and set in **nipple** at 12542. At 12:00 tubing pressure built to 510 psi. Opened tubing to flare. Annulus loaded with 61 bbls 10# brine. Pumped 43 bbls of 10# in tubing. Pressured tubing to 1950 psi and isolated to manifold at 1625 psi. In 10 mins, tubing pressure is at 1575 psi. Loaded annulus and pressured to 1650 psi for 10 mins. Bled pressure on annulus and pressured tubing to 3525 psi. In 20 mins, pressure fell to 3300 psi. Bled pressure and swabbed tubing to test tank. Recovered 58 bbls of fluid on 9 runs. EFL 11,800'. Left tubing and casing open to tank. SDON.

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

03/24/01 Well is open on tubing and casing. Shot FL on annulus at 9 joints or 285'. This is a 8.3 bbl drop or .5 bbls/hour loss. RIH with swab and found FL at 11,600'. We left the FL 3/23/01 at 11,600. The 8.3 bbls loss in casing is 1433' inside the tubing. The tubing did not communicate with the casing overnight. Truck loaded the annulus with 11 bbls and fluid is falling slowly. Pumped 30 bbls 10# brine in tubing. ND tree, pulled wrap around, NU BOP. RU Pro Slickline. RIH and retrieved equalizing prong. RIH and retrieved blanking plug. RD Pro Slickline. Pumped 27 bbls 10# brine in tubing and pressure increased to 400 psi. SD pumping with tubing on a slight vacuum. Picked up on tubing finding packer sheared. Pulled seal assembly out of PBR. Laid down 1 joint and well started unloading out of the tubing. SWI with pressure increasing to 500 psi. SWI, SDON.

03/26/01 Tubing pressure 1500 psi, casing 30 psi. Flowed tubing down while pumping on annulus at .5 - 1 BPM. Pumped 100 bbls 10# brine in annulus with well under control. POH with tubing. The 284 joint from surface was bent in the middle. The **packer** lugs were sheared off and all Chevron seals were off the seal assembly. The 12' sub between the **packer** and seal assembly was bent. **Acid** has pitted 8 joints of tubing and seal assembly. Total tools laid down: 10 joints tubing, **packer**, 12' sub and seal assembly. RIH with 164 joints tubing. SWI, SDON. Skimmed oil off test tank and put in test tank.

03/27/01 Tubing on a vacuum with casing open to tank. POH with kill string. RIH with 3.75 mill 10 joints 2-3/8" tubing, 384 joints 2-7/8" tubing and tagged top of liner at 12569.23' KB. Ran to 12798.09' KB with mill. POH with 1/2 tubing string. LWOTT, SDON. Tubing detail to run mill inside 4-1/2" 15.1#/ft casing:

	KB Correction	14.00
	3.75 Mill	0.97
	X-over	1.96
10 jts	2-3/8" EUE 8rd L-80 4.7#/ft	315.93
	2-3/8" x 2-7/8" x-over	0.40
384 jts	2-7/8" EUE 8rd L-80 6.5#/ft	12210.50
	25.87 in on joint #385 of 2-7/8	25.87
	Felt top of liner	12569.63 KB
	Added 6" on jt #385 of 2-7/8 + 7 jts	228.86
	End of Mill	12798.49 KB

Total 2-3/8" inside liner 7 jts + 6' = 228.86'.

392 joints 2-7/8" 12465.23 31.79906

10 joints 2-3/8" 315.93 31.59300

Total 402 joints 12781.16 31.79393

Received	Threads off	Threads on
10 joints 2-3/8" 4.7# L-80	315.93	317.97
15 joints 2-7/8 EUE 8rd 6.5 # L-80	477.94	481.96

03/28/01 Tubing with 0 psi. POH with balance tubing and mill. PU **packer** assembly, 1 joint 2-3/8 tubing and tested to 5000 psi. Ran 2 more joints 2-3/8 and tested to 10000 psi. RIH with 344 joints 2-7/8" tubing testing to 10000 psi above slips. Found 1 bad collar. LWOTT, SDON. Transports loaded **frac** tank with 480 bbls 10# brine.

# Matador Operating Company

**Red Hills Unit #5**

Sec. 33, T25S, R33E

**API #30-025-35112**

Lea County, New Mexico

03/29/01

FIH with 24 stands of tubing testing to 10000 psi above slips. Tagged top of liner with 392 joints in hole. With 15' in on the 392nd, the drag blocks hit the top of the 4-1/2" casing. Set **packer** and packed off with 25 points. Released TOSSD and circulated 470 bbls 10# brine containing 220 gals Pro Kem PK040 **packer** fluid. Engage TOSSD and tested **packer** on annulus to 1500 psi. ND BOP, set wrap around, installed BO2 bushing with 2-7/8" EUE 8rd BP threads and tree. Tested tree, BO2 bushing to 10000 psi - ok. Landed tree with 12 points compression on **packer**. Tested wrap around, ring gasket and BO2 bushing to 10000 psi - ok. Left casing open and tubing open to tank. SDON.

## Tubing Detail:

	2-3/8" EUE 8rd J-55 mule shoed collar	0.41	
	2-3/8" x 1.875 XN <b>nipple</b> with 1.791 No Go	1.35	@ 12636.00
	2-3/8" EUE 8rd L-80 sub	8.05	
	2-3/8" EUE 8rd L-80 sub	8.03	
	4-1/2" x 2-3/8" UNI 6 <b>packer</b> 10K	6.85	@ 12613.07
	4-1/2" x 2-3/8" XL on/off with 1.875" with X profile	1.97	@ 12611.11
3 joints	2-3/8 EUE 8rd L-80	95.27	
	2-3/8" x 2-7/8" X-over	0.60	@ 12515.23
393 jts	2-7/8 EUE 8rd L-80	<u>12497.23</u>	
396 jts	total tubing and tools	12619.76	
	KB Adjustment	<u>21.00</u>	
		12640.76	
	Tubing up for compression	<u>-3.00</u>	
	End of WL re-entry guide	12637.76	

03/30/01

Well is open to tank on tubing and casing is open to cellar. Casing is full. Start swabbing as follows:

Run #	FL	Dpt pulled	Recovery	Sample
1	300	1500		
2	1500	2500		
3	2500	3700		
4	3500	4500		
5	4500	5700		
6	5700	6900		
7	6900	8200		
8	7500	8700		
9	7800	9000		
10	8200	9400		
11	8800	9500		
12	8200	10000		5% oil
13	10000	11500		30% oil
14	11000	11500		
15	11000	11500		
16	10500	11500		
17	1000	11500		

Recovered 100 bbls total fluid. Roustabout crew tied in meter run to stack pack. Installed 3" backpressure valve in vent line off stack pack. Welder built change over spools for meter run.



# Matador Operating Company

## Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

03/31/01 Well is open to tank on tubing and casing is open to cellar. Casing is full. Start swabbing as follows:

Run #	FL	Dpt pulled	Recovery	Sample
1	5400	8000		60% oil
2	8000	10500		30% oil
3	10000	11500		30% oil
4	10300	11500		30% oil
5	10600	11500		30% oil
6	10600	11500		30% oil
7	10600	11500		30% oil
8	11000	11500		20% oil
9	11000	11500		20% oil
10	11000	12000		10% oil
11	11000	12000		10% oil

Recovered 47 bbls total fluid.

04/02/01 Well is open to tank. Start swabbing as follows:

Time	FL	Cut in oil
8:30	4800	40% oil
9:30	5000	50% oil
10:30	8600	60% oil
11:30	10500	30% oil
12:30	11000	30% oil
1:30	11000	30% oil
2:30	11000	30% oil
3:30	11000	20% oil
4:30	11000	20% oil

Recovered 49 bbls total fluid in 13 runs.

04/03/01 FL swabbed to 11,000'. Tubing left open to tank over-night. No fluid. RU Schlumberger to acidize with 10,000 gal 15% NEFE, LST. RU Key pump truck to hold 1000# on annulus and monitor. Pump acid and 200 ball sealers as follows: 1st - 5 bbls acid, start dropping ball sealers 9 at a time, every 10 bbl. 2nd - tubing loads with 60 bbls pumped. 3rd - acid on formation, 6900# at 8.5 BPM. 4th - steady pressure increase with ball action, 8700# at 5 BPM, 127 bbls acid on formation, 107 ball sealers. 5th - shut down pumps 1/2 min, pressure 6200#. 6th - pump 19 bbls (acid volume pumped: 10,000 gal. 238 bbls) pressure 9400# at 4 BPM. 7th - shut down pumps 1/2 min, pressure 6000#. 8th - flush acid to bottom perf with 88 bbls 2% KCL and FR, 7400# at 7 BPM. Total fluid pumped: 325 bbls. ISIP 6400, 5 min 6327#, 10 min 6295#, 15 min 6263#. RD Schlumberger. 1 hour SITP 6200#. Begin flow-back on 8/64 choke. Recovered 10 BW in one hour. RU swab. Made 6 swab runs, recovered 40 bbls. FL at 3200'. On seventh swab run to 4700', pull 1500'. Sand line parts at second flag (200' above swab). Leave well open over-night for evaluation. PPS well tester on location.

## Matador Operating Company

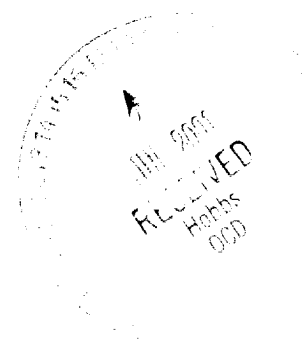
### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

- 04/04/01      Tubing left open to tank over-night. No fluid, no gas. RU kill truck. Load tubing with 18 bbls brine water. ND tree. NU BOP. Release on-off tool. Reverse circulate 73 bbls to pit (tubing volume). Strong show of acid gas with fluid and no live acid. TOH with tubing and on-off tool. Tubing pulling wet. Keep casing full of brine. Re-dress on-off tool. RU AAA tubing testers. Test in hole to 10,000 psi above slips with 52 stands tubing. Leave open to tank on 10/64 choke. Fluid level in casing at surface. No gas or flow during TOH / TIH. SDON. Note: no charge for rig or services. All cost for today on contractor.
- 04/05/01      Tubing left open to tank overnight. No fluid, no gas. Continue test in hole with tubing. Latch on/off tool. Load casing with 58 bbls brine water. Test casing and **packer** to 4000 psi for 30 minutes. No leak off. ND BOP. Test tree and connections to 10000#. NU tree. Test wrap around, BO2 coupling, and tubing head to 10000#. RD Basic well service. RU Aires swab unit. (This unit was recently purchased, new sand line was installed 20 days previous.) FL first run at 1250'. Made 4 swab runs. FL at 5000'. Recovered 26 BW. LWOTT on 10/64 choke. SDON.  
**Tubing Detail:** Same as before
- 04/06/01      Tubing left open to tank overnight. No fluid, small gas show. Continue swab. FL first swab run at 1200' and gas cut. 20# gas after swab. Swab 10 hours. FL varies from 1200 - 4600' and gas cut. Up to 50 psi gas behind swab. Made 27 runs, recovered 167 BW. LWOTT. SDON.
- 04/07/01      Open to tank of 10/64 choke. FTP 20#. Continue swab. FL first run at 1700' and scattered. Swab 10 hours. Last 4 hours, swab from X-O at 12,500' with varying FL. Up to 100# gas behind swab. Made 16 runs, recovered 55 BW, 19 BO. LWOTT, SDON.
- 04/08/01      Open to tank on 10/64 choke. FTP 120#. Continue swab. FL first run at 2000' and scattered. Swab 10 hours. All runs except first, from X-O at 12, 500', FL decreasing through day. Up to 100# gas behind swab. Made 14 runs, recovered 51 bbls total fluid. Will color cut next am. Expect 30% oil cut. LWOTT on 10/64 choke. SDON. Recovered 19 BO. 299 BTLR. 237 BTLLTR.
- 04/09/01      Open to tank on 10/64 choke. FTP 160#. Continue swab. FL first run at 8700' and scattered. Swab 11 hours. All runs from X-O at 12, 500', FL decreasing through day. Up to 120# gas behind swab. Made 14 runs, recovered 40 bbls total fluid (35 BW, 5 BO). Drop 10 soap sticks. LWOTT on 10/64 choke. SDON. 330 BTLR. 202 BTLLTR.
- 04/10/01      Open to tank on 10/64 choke. FTP 200#. Continue swab. FL first run at 1500' and scattered. Swab 11 hours. All runs after first hour from X-O at 12, 500'. Up to 120# gas behind swab. Last 4 hours of the day, 1.25 bbls entry per hour. Made 12 runs, recovered 20 bbls total fluid (18 BW, 2 BO). Drop 1 soap stick per hour. LWOTT on 10/64 choke. SDON. 348 BTLR. 184 BTLLTR.
- 04/11/01      Open to tank on 10/64 choke. FTP 150#. Continue swab. FL first run at 1800' and scattered. Swab 11 hours. All runs from X-over at 12500'. Up to 150# gas behind swab. First two runs of day, 5 bbls total. Made 11 runs. Recovered 21 bbls total fluid (18 BW, 3 BO). Drop 1 soap stick per hour. LWOTT on 10/64 choke. SDON. 366 BTLR. 166 BTLLTR.



## Matador Operating Company

### Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

04/12/01 Open to tank on 10/64 choke. FTP 190#. Continue swab. FL first run at 2800' and scattered. Swab 9 hours. All runs from X-over at 12,500'. Up to 180# gas behind swab. Made 9 runs. Recovered 20 bbls total fluid (18 BW, 2 BO). Drop 1 soap stick per hour. Leave shut in over Easter weekend. 384 BTLR. 148 BTLLTR.

04/16/01 87 hour SITP at 1800#. Flow to tank 2 hours (4 BO). Continue swab. FL first run at 800' and scattered. All runs after first from X-over at 12,500'. Up to 200# gas behind swab. Made 10 runs, recovered 40 bbls total fluid (19 BW, 21 BO). Drop 1 soap stick per hour. LWOTT on 10/64 choke. SDON. 403 BTLR. 129 BTLLTR.

04/17/01 FTP on 10/64 choke 160#. No fluid to tank overnight. Continue swab. FL first run at 4100' and scattered. All swab runs from X-over at 12,500'. Up to 180# gas behind swab. Made 13 runs, recovered 48 bbls total fluid (33 BW, 15 BO). Drop 5 soap sticks at end of day. LWOTT on 10/64 choke. SDON. 436 BTLR. 96 BTLLTR.

04/18/01 FTP on 10/64 choke 180#. No fluid to tank overnight. Continue swab. FL first run at 6300' and scattered. All swab runs from X-over at 12,500'. Up to 160# gas behind swab. Made 12 runs, recovered 41 bbls total fluid (15 BW, 26 BO). LWOTT on 10/64 choke. Initial FTP at 45#. SDON. 451 BTLR. 81 BTLLTR.

04/19/01 FTP on 10/64 choke 200#. 3 bbls to tank overnight. Continue swab. FL first run at 7100' and scattered. All swab runs from X-over at 12,500'. Up to 180# gas behind swab. Made 13 runs, recovered 40 bbls total fluid (8 BW, 32 BO). LWOTT on 10/64 choke. Initial FTP at 15#. SDON. 459 BTLR. 73 BTLLTR.

04/20/01 FTP on 10/64 choke 160#. No fluid to tank overnight. Continue swab. FL first run at 3400' and scattered. All swab runs from X-over at 12,500'. Up to 180# gas behind swab. Made 10 runs, recovered 16 bbls total fluid (8 BW, 8 BO). Leave shut in for stimulation 4/22. SDON. 467 BTLR. 65 BTLLTR.

#### Water Analysis:

Anions	ppm
Chlorides	51766
Sulfates	462
Carbonates	0
Bicarbonates	213

Cations	ppm
Calcium	6597
Magnesium	314
Iron	323
Sodium	25431



# Matador Operating Company

## Red Hills Unit #5

Sec. 33, T25S, R33E

API #30-025-35112

Lea County, New Mexico

04/22/01  
Corrected SITP 1336 psi. RU Schlumberger to pump SXE **acid**, Howco to pump N2, and tree savers. **Acid frac** Wolfcamp **perfs** 13096-13689 with 45650 gals 28% HCL SXE **acid** (70% acid in 30% diesel emulsion) containing 750 SCF/bbl of N2 followed by 5100 gals 20% HCL and N2. Flushed with 2% KCL and N2. Dropped 100 ball sealers in 4 groups of 25 spaced evenly throughout. Ball action caused pressure fluctuations of up to 2000 pi in treating pressure. Total fluid pumped: 1345 bbls. Total N2: 858,000 SCF. Average pressure: 11065#. Average rate: 13.9 BPM. ISIP 3284#, 5 min 755#, 10 min 714#, 15 min 719#. RD treating equipment. RU PPS testers for flow-back. 90 min SITP 420#. Begin flowback. Recover fluid at rates of 50-30 BPH on 3/4 choke. Flow 310 BF in 14 hours. Flowrate at 7:00 am 4/23/01 at 2100 MCFD at 300# FTP and estimated 30 BPH fluid. 310 BTLR. 1035 BTLLTR.

04/23/01 FTP 200#. Flow through PPS stack pack. Gas flow rate of 2800 - 3400 MCFD with FTP of 440-460 psi. Fluid recovery of 30 - 8 BPH, 30% oil. Tie in gas sales line. Purge same. Continue to flair gas to pit at 100 MCFD rate. Attempt to put on line. Line pressure is 930#. Well builds to 700# in 1/2 hour. Well builds to 800# in 45 min more. Turn well back through test unit to recover more fluid overnight. Will attempt to put on line next am. Fluid recovered this report 100 BW, 80 BO. 410 BTLR of 1084 BTL. 674 BTLLTR.

04/24/01 FTP 610#. Flow through PPS stack pack. Gas flow rate of 2200 MCFD on 29/64 choke. Fluid recovery of 3.5 BPH, 30% oil. Put on line to El Paso at 800 psi. Flow rate of 460 MCFD. Line pressure increased to 910#. Flow rate 0. Turn well back through test unit. Tie gas line into Sid Richards pipeline at Red Hills #1. Put on line at flow rate of 3 MMCFD. FTP 540#. Fluid recovered this report 34 BW, 35 BO. 12 hour gas sales of 1830 MCF. 444 BTLR of 1084 BTL. 640 BTLLTR.

04/26/01 Produced 3000 MCF, 30 oil, and 30 water last 24 hours. Gas rate at 2806 MCFD, FTP 450 at 5:00 am 4/26/01. 474 BTLR of 1084 BTL. 610 BTLLTR.

04/26/01 Production will lag behind one day. Gas sales for previous 24 hours: 2946 MCF. At 8:45 am, 4/27/01, flowrate at 2902, FTP 280.

04/27/01 20 oil, 2947 MCF, 20 water, 600 tubing pressure, transfer 162 BO from **frac** tank

04/28/01 20 oil, 2427 MCF, 3 water, 250 tubing pressure, transfer 131 BO from **frac** tank

04/29/01 17 oil, 2609 MCF, 35 water, 250 tubing pressure

04/30/01 30 oil, 2609 MCF, 22 water, 250 tubing pressure

05/01/01 0 oil, 2043 MCF, 3 water, 399 tubing pressure, pulled water off tank

05/02/01 29 oil, 1950 MCF, 3 water, 250 tubing pressure

Contractor completed road repair from rancher's water station to Red Hills #5. Used 820 yards of caliche and 660 bbls of water.

