

District I - (505) 393-6161  
P. O. Box 1980  
Hobbs, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
District IV

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division

2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Form C-140  
Originated 11/1/95

Submit Original  
Plus 2 Copies  
to appropriate  
District Office

H-0405

APPLICATION FOR  
QUALIFICATION OF WELL WORKOVER PROJECT  
AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE OIL CONSERVATION DIVISION.

- I. Operator: Mitchell Energy Corporation OGRID #: 015025  
Address: P.O. Box 4000, The Woodlands, TX 77387-4000  
Contact Party: Mark N. Stephenson Phone: 713-377-5818
- II. Name of Well: Tomahawk "28" Fed. Com. Well No. 1 API #: 30-025-31895  
Location of Well: Unit Letter F, 1980 Feet from the West line and 1650 feet from the North line,  
Section 28, Township 20S, Range 33E, NMPM, Lea County
- III. Date Workover Procedures Commenced: 1-9-98  
Date Workover Procedures were Completed: 1-17-98
- IV. Attach a description of the Workover Procedures undertaken to increase the projection from the Well.
- V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.
- VI. Pool(s) on which Production Projection is based:

VII. AFFIDAVIT:

State of Texas )  
County of Montgomery ) ss.

Maryann Fuchs, being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.
2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.
3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

Maryann C. Fuchs  
(Name) Maryann C. Fuchs

Staff Reservoir Engineer 713-377-6951  
(Title)

1998

SUBSCRIBED AND SWORN TO before me this 23 day of January, 1998



Marsha Vogel  
Marsha Vogel  
Notary Public

My Commission expires: September 14, 2000

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production Projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 1-17, 1998

Paul G. Hunt  
District Supervisor, District 1  
Oil Conservation Division

Date: 1/27/98

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.

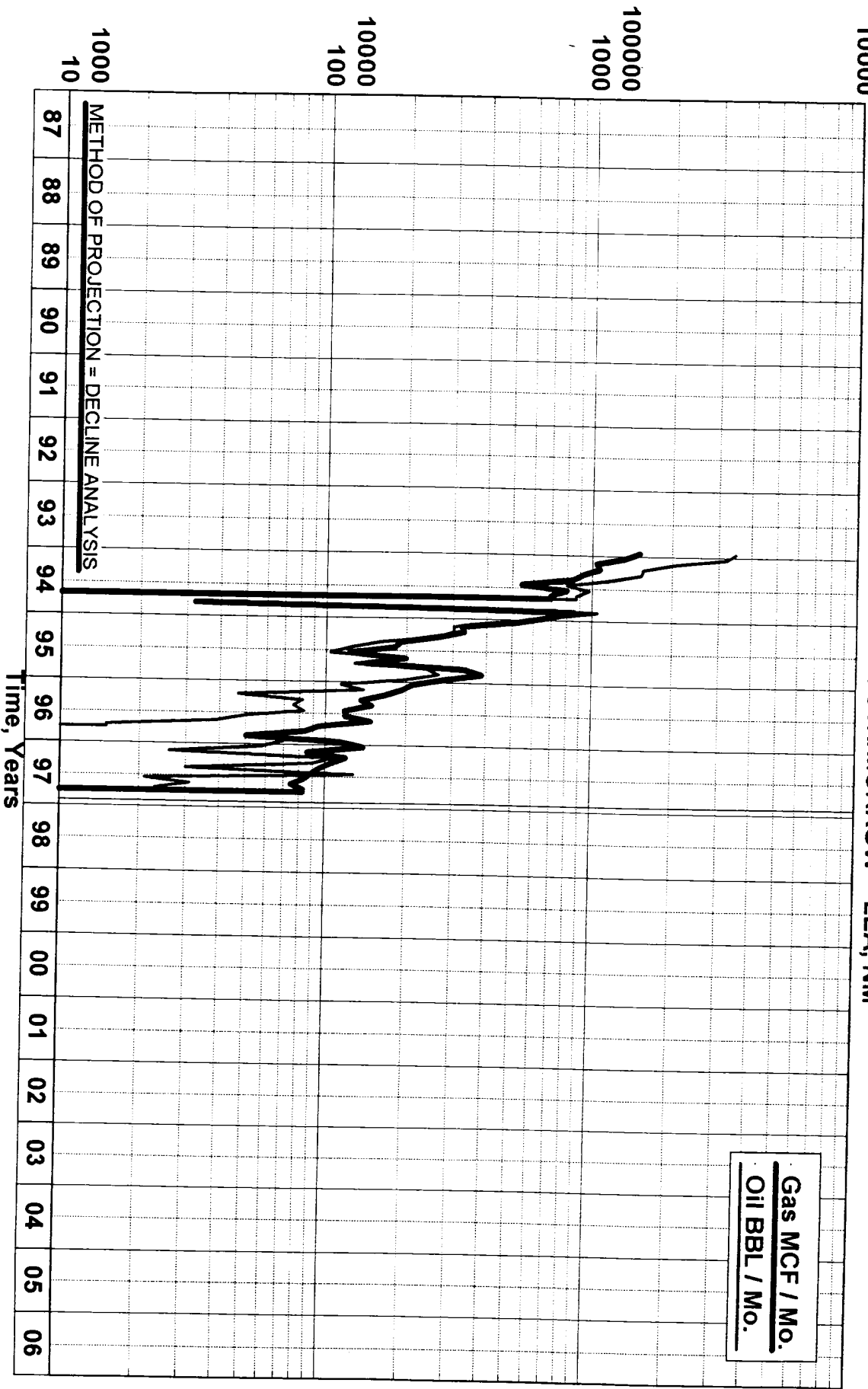
DATE: \_\_\_\_\_



1000000  
100000

014700 TOMAHAWK 28 FED COM 1  
API 30-025-31895 F-28-20S-33E  
SALT LAKE SOUTH/MORROW LEA, NM

Gas MCF / Mo.  
Oil BBL / Mo.



Time, Years

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires July 31, 1996

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.

SUBMIT IN TRIPLICATE - Other Instructions on reverse side

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
 Mitchell Energy Corporation

3a. Address  
 P.O. Box 4000, The Woodlands, Texas 77387-4000

3b. Phone No. (include area code)  
 713 377 5855

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1980' FWL and 1650' FNL Unit F, Sec. 28, T205, R33E

5. Lease Serial No.  
 NM 89889

6. If Indian, Allottee or Tribe Name  
 N/A

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

8. Well Name and No.  
 Tomahawk "28" Fed. Com. #1

9. API Well No.  
 30-025-31895

10. Field and Pool, or Exploratory Area  
 Salt Lake, S. (Morrow)

11. County or Parish, State  
 Lea County  
 New Mexico

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

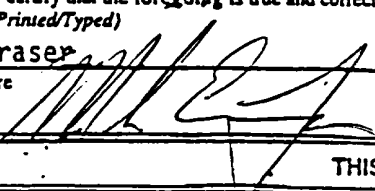
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<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 recomplete 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 recompletion 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.)

- 1/8/98 MIRU SLU. RIH w/"xx" plug & set in "XN" nipple @ 13,681 POOH
- 1/9/98 Load TBG w/35 BBLS KCL & tested to 2000 PSI
- 1/13/98 MIRU WOU ND 5000 PSI tree. NU BOP's. POOH w/2 7/8" P-105 TBG. RIH & dumped 35' CMT on "BWB" PKR @ 13,657' POOH RIH w/GR-CCL tool w/GR-JB to 13,550' POOH.
- 1/14/98 RU ELU. RIH w/TCP ASSY, PKR ASSY & HES "BWB" PKR. Set @ 13,437'. RIH w/J-Latch & 2 7/8" P-105 TBG. Spaced out & landed TBG w/23,000# compression.
- 1/15/98 ND BOP NU 5000 PSI tree. Swabbed down to 2800'. Dropped firing bar. Fired TCP guns & Perf'd 13,525-13532', 6SPF, 43 holes.
- 1/16/98 RD WOU BWO to sales @ 10:00 hrs @ 767 MCFPD rate.

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

Name (Printed/Typed)  
 Mark Fraser

Signature  


Title  
 Sr. Engineering Technician

Date  
 1/20/98

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

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.

Office \_\_\_\_\_

**014700 Tomahawk 28 Fed Con**  
**Salt Lake South / Morrow Field**  
**Lea County, New Mexico**  
**Operated by Mitchell Energy Corporation**  
**Historical Production Through November 1997 With Zero Projection**

API 30-025-31895  
Location F-28-20S-33E

<u>Date</u>	<u>Monthly Oil Prod. Hist. Bbl</u>	<u>Monthly Oil Prod. Proj. Bbl</u>	<u>Cum. Oil Prod. Bbl</u>	<u>Monthly Gas Prod. Hist. Mcf</u>	<u>Monthly Gas Prod. Proj. Mcf</u>	<u>Cum. Gas Prod. Mcf</u>
Jan-93	0		0	0		0
Feb-93	0		0	0		0
Mar-93	0		0	0		0
Apr-93	0		0	0		0
May-93	0		0	0		0
Jun-93	0		0	0		0
Jul-93	0		0	0		0
Aug-93	0		0	0		0
Sep-93	0		0	0		0
Oct-93	0		0	0		0
Nov-93	0		0	0		0
Dec-93	3,474		3,474	149,945		149,945
	<b>3,474</b>			<b>149,945</b>		
Jan-94	3,228		6,702	132,274		282,219
Feb-94	2,023		8,725	103,465		385,684
Mar-94	1,552		10,277	106,723		492,407
Apr-94	1,527		11,804	92,585		584,992
May-94	1,177		12,981	84,567		669,559
Jun-94	803		13,784	54,196		723,755
Jul-94	970		14,754	80,310		804,065
Aug-94	868		15,622	69,770		873,835
Sep-94	0		15,622	98		873,933
Oct-94	83		15,705	3,214		877,147
Nov-94	1,045		16,750	85,482		962,629
Dec-94	719		17,469	69,855		1,032,484
	<b>13,995</b>			<b>882,539</b>		
Jan-95	518		17,987	52,700		1,085,184
Feb-95	301		18,288	32,476		1,117,660
Mar-95	303		18,591	32,932		1,150,592
Apr-95	259		18,850	26,511		1,177,103
May-95	160		19,010	19,064		1,196,167
Jun-95	124		19,134	18,138		1,214,305
Jul-95	104		19,238	12,306		1,226,611
Aug-95	192		19,430	19,925		1,246,536
Sep-95	128		19,558	14,141		1,260,677
Oct-95	240		19,798	33,033		1,293,710
Nov-95	265		20,063	38,503		1,332,213
Dec-95	200		20,263	27,491		1,359,704
	<b>2,794</b>			<b>327,220</b>		

**014700 Tomahawk 28 Fed Cor.**  
**Salt Lake South / Morrow Field**  
**Lea County, New Mexico**  
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**Historical Production Through November 1997 With Zero Projection**

API 30-025-31895  
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<u>Date</u>	<u>Monthly Oil Prod. Hist. Bbl</u>	<u>Monthly Oil Prod. Proj. Bbl</u>	<u>Cum. Oil Prod. Bbl</u>	<u>Monthly Gas Prod. Hist. Mcf</u>	<u>Monthly Gas Prod. Proj. Mcf</u>	<u>Cum. Gas Prod. Mcf</u>
Jan-96	114		20,377	21,158		1,380,862
Feb-96	139		20,516	19,318		1,400,180
Mar-96	47		20,563	16,752		1,416,932
Apr-96	82		20,645	13,629		1,430,561
May-96	76		20,721	14,870		1,445,431
Jun-96	83		20,804	11,782		1,457,213
Jul-96	50		20,854	11,883		1,469,096
Aug-96	39		20,893	14,751		1,483,847
Sep-96	15		20,908	9,511		1,493,358
Oct-96	3		20,911	8,374		1,501,732
Nov-96	3		20,914	5,050		1,506,782
Dec-96	69		20,983	11,260		1,518,042
	<b>720</b>			<b>158,338</b>		
Jan-97	57		21,040	13,895		1,531,937
Feb-97	26		21,066	8,578		1,540,515
Mar-97	107		21,173	11,950		1,552,465
Apr-97	90		21,263	10,569		1,563,034
May-97	30		21,293	9,464		1,572,498
Jun-97	128		21,421	8,841		1,581,339
Jul-97	21		21,442	8,341		1,589,680
Aug-97	31		21,473	7,473		1,597,153
Sep-97	23		21,496	8,283		1,605,436
Oct-97	0		21,496	35		1,605,471
Nov-97	0		21,496	2		1,605,473
Dec-97		0	21,496		0	1,605,473
	<b>513</b>			<b>87,431</b>		

# DRILLING, WORKOVERS & PRODUCTION DATA

## SALT LAKE, SOUTH

## Perfs

## Tomahawk '28' Fed Com #1

Lea County, NM  
 TD: 14,260'  
 PBD: 13,797'

13,710-744'

AFE/LW: B7138/06457-01  
 WI: 81.250  
 20" @ 533'  
 13<sup>3</sup>/<sub>8</sub>" @ 3425'  
 8<sup>5</sup>/<sub>8</sub>" @ 5324'  
 5<sup>1</sup>/<sub>2</sub>" @ 14,258'

**AFE: \$60,000**

**OBJECTIVE:** Morrow Recompletion

DATE : 01/09/98

DC : \$ 3520 CUM : \$ 67568

Activity :

Daily Details:

MIRU SLU W/3000 PSI LUBRICATOR. RIH W/1.875" 'XX' PLUG ON 0.092" LINE TO 13,224'. PU TO CHECK LINE WT; LINE PARTED @ SLU. SPLICED LINE. POOH. LD TOOLS & 'XX' PLUG. RIH W/1.875" 'XX' PLUG ON 0.125" LINE & SET 'XX' PLUG IN 'XN' NIPPLE @ 13,681'. POOH. BLED TP 925-0 PSI. RDMO SLU. CWI.

DATE : 01/10/98

DC : \$ 900 CUM : \$ 68468

Activity :

Daily Details:

MIRU PUMP TRK. LOADED TBG W/35 BBLs 2% KCL & TESTED TO 2000 PSI. RDMO PUMP TRK.

DATE : 01/11-12/98

DC : \$ 0 CUM : \$ 68468

Activity :

Daily Details:

NO ACTIVITY.

DATE : 01/13/98

DC : \$ 550 CUM : \$ 69018

Activity :

Daily Details:

MI & SPOTTED WOU.

DATE : 01/14/98

DC : \$ 18046 CUM : \$ 23016

Activity :

Daily Details:

RU WOU. ND 7-1/16" 5M TREE. NU BOP. RELEASED J-LATCH & STUNG OUT OF 'BWB' PKR. POOH WITH 1 JT 2<sup>7</sup>/<sub>8</sub>" 6.5# CS HYDRIL TBG, 8' CS HYDRIL PUP JT, 439 JTS 2<sup>7</sup>/<sub>8</sub>" 6.5# CS HYDRIL TBG & OTIS J-LATCH ASSY. MIRU ELU. RIH W/3<sup>3</sup>/<sub>8</sub>" DUMP BAILER (2 RUNS) & **DUMPED 35' OF CMT ON TOP OF 'BWB' PKR @ 13,657'**. POOH. CLOSED BLIND RAMS & TESTED CSG TO 4000 PSI. RIH W/GR-CCL TOOL W/4.6" GR & JB ON BTM TO 13,550'. GR-CCL TOOL W/4.64" GR & JB ON BTM. PULL GAMMA RAY STRIP 13,549-13,200' CORRELATED FLAT TO GR-CBL-CCL DATED 7/28/93. POOH. SECURED WELL; SDFN.

DATE : 01/15/98

DC : \$ 9730 CUM : \$ 28326

Activity :

Daily Details:

RU ELU. MU & RIH W/3<sup>3</sup>/<sub>8</sub>" TCP ASSY, PKR ASSY & 5<sup>1</sup>/<sub>2</sub>" HFS 'BWB' PKR. SET PKR @ 13,437' W/TOP SHOT @ 13,525' & BTM SHOT @ 13,532'. POOH. RDMO ELU. RIH W/OTIS J-LATCH & 400 JTS 2<sup>7</sup>/<sub>8</sub>" 6.5# P-105 HYDRIL CS CB TBG, HYDRO TESTING TBG TO 11,000 PSI. SECURED WELL; SDFN.

DATE : 01/16/98

DC : \$ 26025 CUM : \$ 54351

Activity :

Daily Details:

FIN RIH W/36 JTS 2<sup>7</sup>/<sub>8</sub>" P-105 CS CB HYDRIL TBG. SPACED TBG OUT FOR 23,000# COMPRESSION W/TOP SHOT @ 13,525'. RELEASED J-LATCH. PU & CIRC 200 BBLs 2% KCL FOLLOWED W/200 BBLs 2% KCL W/1 DRUM CRW-37 CORROSION INHIBITOR. ND BOP. NU 7-1/16" 5000 PSI TREE. TBG LANDED W/23,000# COMPRESSION. RU SWAB. SWABBED FLOWLINE DOWN TO 2800'. LD SWAB. DROPPED BAR. FIRED TCP GUNS & **PERF'D 13,525-13,532'** W/6SPF. TOTAL OF 43 HOLES. GOOD BLOW ON TBG AFTER 5 MINS. BLOW CONT'D FOR 30 MINS. PU SWAB. IFL-600'. MADE TOTAL OF 9 RUNS. SWABBED TOTAL OF 28 BBLs. KICKED WELL OFF FLOWING. FLOWED 4 BW TO TEST TANK. **TURNED WELL TO SALES ON 20/64" CK.** FTP-600 PSI @ RATE OF 720 MCF. FTP-800 PSI. CWI - LLANOS GAS LINE FROZEN. FTR 62 BBLs FRT 32 BBLs FLTR 30 BBLs.

# DRILLING, WORKOVERS & PRODUCTION DATA

## SALT LAKE, SOUTH

## Perfs

## Tomahawk '28' Fed Com #1

Lea County, NM  
TD: 14,260'  
PBSD: 13,797'

13,710-744'

AFE/LW: B7138/06457-01  
WI: 81.250  
20" @ 533'  
13<sup>3</sup>/<sub>8</sub>" @ 3425'  
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5<sup>1</sup>/<sub>2</sub>" @ 14,258'

**AFE: \$60,000**

**OBJECTIVE:** Morrow Recompletion

DATE : 01/17/98

DC : \$ 650 CUM : \$ 122569

Activity :

Daily Details:

RD WOU. SWI FOR 15 HRS. SITP-4100 PSI. **TURNED WELL TO GAS SALES LINE @ 1000 HRS 1/16/98 ON 16/64" CK; SPOT RATE OF 1300 MCFPD.** F-21, 16/64", FTP-650 PSI, 767 MCF, 50 BC, 49 BW.

DATE : 01/18/98

DC : \$ 650 CUM : \$ 123219

Activity :

Daily Details:

F-24, CK 24/64", FTP-700 PSI, 790 MCF, 17 BC, 1 BW.

DATE : 01/19/98

DC : \$ 0 CUM : \$ 123219

Activity :

Daily Details:

F-24, CK 24/64", FTP-750 PSI, 744 MCF, 12 BC, 1 BW. **DROP TEMPORARILY PENDING PBU TEST.**