

PICEANCE VLY

GV 02-07S-096W

GM 256-2 Pad

GM 256-2

WORKOVER

Operation Summary Report

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Williams

**GM
256-2**

API Well No.:

**10/27/2006
GARFIELD**

SQUEEZE

Customer Representative:

Brian O'Dell

Halliburton Operator:

MARK MAYO

Ticket No.:

4710408

HALLIBURTON

HALLIBURTON

REGION

NORTH AMERICA

EMPLOYEE #

314204

LOCATION

Grand Junction CO

TICKET AMOUNT

WELL LOCATION

PARACHUTE 81635

LEASE NAME

GM

INWA / COUNTRY

ROCKY MOUNTAIN

H.E.S. EMPLOYEE NAME

MARK MAYO

COMPANY:

Williams

WELL TYPE

02 GAS

DEPARTMENT

ZONAL ISOLATION 10003

SEC / TWP / RNG

SALES ORDER NUMBER

471040

BDA / STATE

COLORADO

PSL DEPARTMENT

CEMENTING SERVICES

CUSTOMER REP / PHONE

Brian O'Dell

API/UWI #

SAP BOMB NUMBER

7526

Description

SQUEEZE

TICKET DATE

10/27/06

COUNTY

GARFIELD

H.E.S. EMP NAME / EMP # / (EXPOSURE HOURS)

HRS

HRS

HRS

HRS

Mayo, Mark 314204

4.0

4.0

Jamison, Bill 229155

4.0

4.0

Puckett, Jacob 339441

4.0

Rockett, Chris 332914

4.0

H.E.S. UNIT #S / (R / T MILES)

R / T MILES

R / T MILES

R / T MILES

R / T MILES

10719776

60

10719786

60

10741113 10744648

60

10026551 10297346

60

Form. Name _____ Type: _____

Form. Thickness _____ From _____ To _____

Packer Type _____ Set At 1,350

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth 1690

Tools and Accessories

Type and Size

Qty

Make

Float Collar

4 1/2

HES

Float Shoe

4 1/2

HES

Centralizers

4 1/2

HES

Top Plug

4 1/2

HES

Limit Clamp

4 1/2

HES

DV Tool

4 1/2

HES

Insert Float

4 1/2

HES

Guide Shoe

4 1/2

HES

Weld-A

HES

Materials

WBM

Density

8.33

Lb/Gal

Disp. Fluid

H2O

Density

8.33

Lb/Gal

Prop. Type

Size

Lb

Prop. Type

Size

Lb

Acid Type

Gal.

%

Acid Type

Gal.

%

Surfactant

Gal.

In

NE Agent

Gal.

In

Fluid Loss

Gal/Lb

In

Gelling Agent

Gal/Lb

In

Fric. Red.

Gal/Lb

In

Breaker

Gal/Lb

In

Blocking Agent

Gal/Lb

Perfpac Balls

Qty.

Other

Other

Other

Other

Other

Well Data

Date

10/27/06

Called Out

0300

On Location

0700

Job Started

0830

Job Completed

1042

Date

10/27/06

Time

0300

0700

0830

1042

Hours On Location

Date

10/27/06

Hours

4.00

Date

10/27/06

Hours

4.00

Operating Hours

Date

10/27/06

Hours

4.00

Date

10/27/06

Hours

4.00

Description of Job

SEE JOB LOG

NEW

11.6

4 1/2

180

0

3,800

USED

4.7

2 3/8

J 55

0

1,350

0

1,690

Shots/Ft.

Ordered: N/A

Available: N/A

Used: N/A

Treating: N/A

Displacing: N/A

Overall: N/A

Feet:

Reason: CUSTOMER REQUEST

Cement Data

Stage

Sacks

Cement

Bulk/Sks

LEAD

200

TYPE V

BULK

TAIL

100

Type V

BULK

Additives

10.0% CALSEAL

10% Calseal 2% Cal Chloride

W/Rq.

7.90

7.01

Yield

1.59

1.59

Lbs/Gal

14.2

14.7

Summary

Circulating

Displacement

H2O

Total Preflush BBL:

Type:

WATER

Breakdown

Maximum

Load & Bkdn Gal - BBI

Pad:Bbl -Gal

Lost Returns-YES

Lost Returns-NO

XXXXX

Excess /ReturnGal BBI

BBL

13.4

Cmt Rtrn#Bbl

Actual TOC

Calc. TOC:

Actual Disp.

13.4

Average

Frac. Gradier

85

Disp:Bbl

BBL

Shut In: Instant

5 Min.

15 Min

Cement Slurry:

54

BBLs

Total H2O Volume

68

BBLs

Frac Ring #1

Frac Ring #2

Frac Ring #3

Frac Ring #4

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER REPRESENTATIVE

SIGNATURE

JOB SUMMARY

4710408

TICKET DATE
10/28/06

COUNTY
GARFIELD

PSL DEPARTMENT
CEMENTING SERVICES

CUSTOMER REP / PHONE
BRIAN O DELL

APRIL 1971 #

Description
SQUEEZE

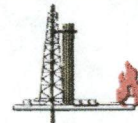
SEC / TWP / RNG

Ordered: N/A		Hydraulic Horsepower	Used: N/A
Treating: N/A		Average Rates in BPM	Overall: N/A
Feet:		Displacing: N/A	
Reason:		Cement Left in Pipe	
CUSTOMER REQUEST			

Summary									
Circulating _____	Displacement _____	H2O _____	Total Preflush BBL: _____	Type: _____	WATER				
Breakdown _____	Maximum _____		Load & Bkdn Gal - BBI _____		Pad: Bbl -Gal _____				
Lost Returns-YES _____	Lost Returns-NO _____	XXXXX	Excess /ReturnGal BBI _____	BBL	Calc. Disp. _____	13.4			
Cmt Rtrn#Bbl _____	Actual TOC _____		Calc. TOC: _____		Actual Disp. _____	7.7			
Average _____	Frac. Gradier _____		Cement Slurry: _____	31	Disp: Bbl _____	BBL			
Shut In: Instant _____	5 Min. _____	15 Min. _____	Cement Mix H2O: _____	21	BBLs _____				
			Total H2O Volume _____	34	BBLs _____				
Frac Ring #1 _____	Frac Ring #2 _____		Frac Ring #3 _____		Frac Ring #4 _____				

THE INFORMATION STATED HEREIN IS CORRECT
CUSTOMER REPRESENTATIVE 

SIGNATURE



JOB LOG

TICKET #
4710408

TICKET DATE
10/27/2006

REGION
NORTH AMERICA LAND

NWA / COUNTRY
ROCKY MOUNTAIN

BDA / STATE
COLORADO

COUNTY
GARFIELD

MBU ID / EMPL # 314204

H.E.S. EMPLOYEE NAME	MARK MAYO
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PSL DEPARTMENT
CEMENTING SERVICES

LOCATION
Grand Junction CO

COMPANY
Williams

CUSTOMER REP / PHONE
Brian O'Dell

TICKET AMOUNT

WELL TYPE	02 GAS
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API/UWI #	
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WELL LOCATION
PARACHUTE 81635

DEPARTMENT
ZONAL ISOLATION 10003

JOB PURPOSE CODE
7526

Description	SQUEEZE
-------------	----------------

LEASE NAME	
------------	--

Well No.

SEC / TWP / RNG

GM

256-2

[illegible]

JOB LOG

TICKET #
4710408

TICKET DATE
10/28/2006

NWA / COUNTRY
ROCKY MOUNTAIN

BDA / STATE
COLORADO

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WELL LOCATION
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Description	SQUEEZE
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LEASE NAME	
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Well No.

SEC / TWP / RNG

GM

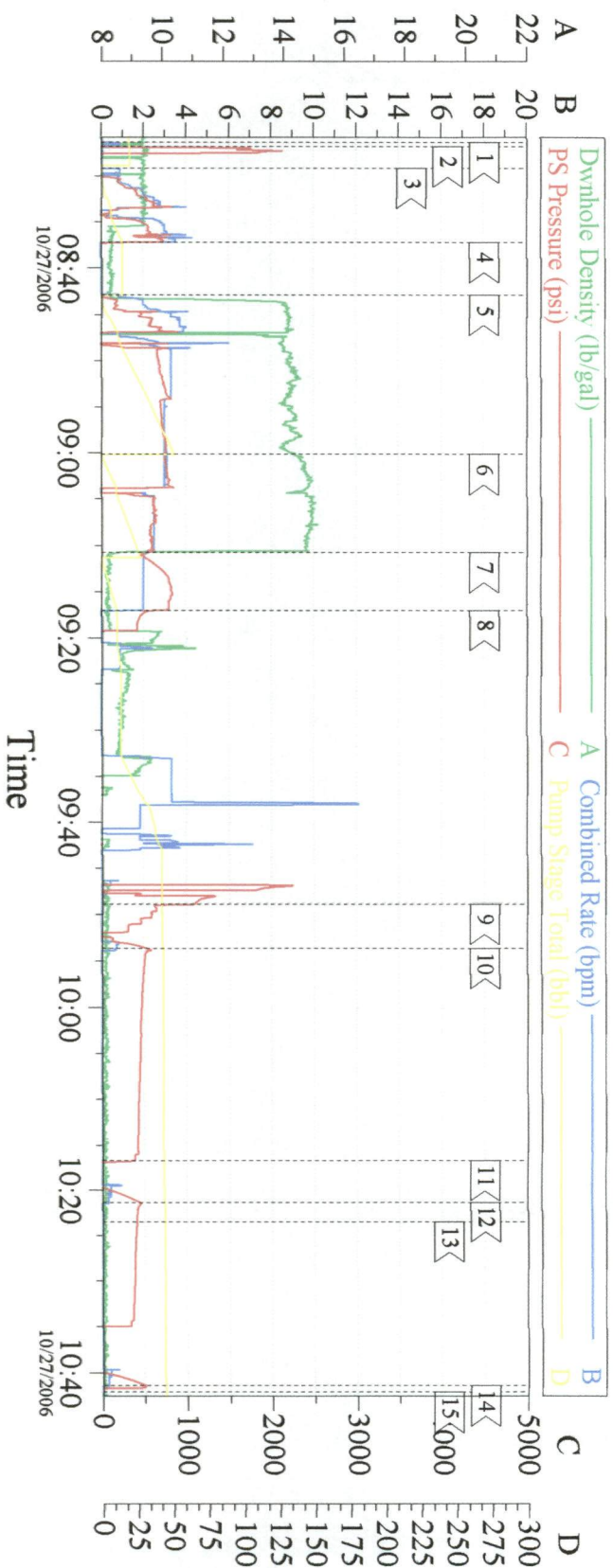
256-2

[illegible]

EVENT #	EVENT		VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job			1000 <u>Max Psi</u>			
6	Test Lines		3000psi				
9	Pump Injection Rate		11.0				
	Shut Down I.S.I.P.						
13	Lead Cement		56.6	200	14.2	1.59	7.89
15	Tail Cement		26.5	100	14.7	1.49	7.01
23	Displace with H2O		13.4				
11	Wash Pumps & Lines						
26	SHUT DOWN						
	Sting out / Unset packer						
	Rig Reverse Out						
	END JOB			Do Not Overdisplace			
CASING	FEET	BBL/FT	BBLS	FEET	Total To Bottom Perf		10.49
Top Perf	1689.00	0.01550	5.25	339.00	From Packer To Top Perf		
Bottom Perf	1690.00	0.01550	5.27	340.00	From Packer To Bottom Perf		
Ft. Of Perfs	1.00	0.01550	0.02	***Use Mud Scales on Each Tier***			
TUBING	1350	0.00387	5.22				
Casing	PSI	Tubing	PSI	TOTAL FLUID PUMPED			108
Collapse	6350	Collapse	8100				
Burst	7780	Burst	7700	PSI To Reverse 1 Bbl		100	

EVENT #	EVENT		VOLUME	SACKS	WEIGHT	YIELD	GAL/ SK
1	Start Job			3000 <u>Max Psi</u>			
6	Test Lines		3000psi				
9	Pump Injection Rate		11.0				
	Shut Down I.S.I.P.						
15	Tail Cement		30.7	150	15.8	1.15	5.86
23	Displace with H2O						
11	Wash Pumps & Lines						
26	SHUT DOWN		0.0				
	Sting out / Unset packer						
2	Reverse out / End Job						
				Do Not Overdisplace			
CASING	FEET	BBL/FT	BBLS	FEET	Total To Bottom Perf		10.49
Top Perf	1689.00	0.01550	5.25	339.00	From Packer To Top Perf		
Bottom Perf	1690.00	0.01550	5.27	340.00	From Packer To Bottom Perf		
Ft. Of Perfs	1.00	0.01550	0.02	***Use Mud Scales on Each Tier***			
TUBING	1350	0.00387	5.22				
Casing	PSI	Tubing	PSI	TOTAL FLUID PUMPED			42
Collapse	6350	Collapse	8100				
Burst	7780	Burst	7700	PSI To Reverse 1 Bbl		100	

Squeeze 1



Event Log

1 <	START JOB	08:26:23	2 <	TEST LINES	08:26:50
3 <	START INJECTION TEST	08:29:10	4 <	SHUT DOWN MIX UP CEMENT	08:37:10
5 <	START LEAD CEMENT	08:42:53	6 <	START TAIL CEMENT	09:00:08
7 <	START DISPLACEMENT	09:10:42	8 <	SHUT DOWN WASH PUMPS & LINES	09:16:59
9 <	RELEASE PRESSURE	09:48:49	10 <	PRESSURE UP WELL	09:53:37
11 <	RELEASE PRESSURE	10:16:46	12 <	PRESSURE UP WELL	10:21:21
13 <	RELEASE PRESSURE	10:23:34	14 <	PRESSURE UP WELL/SHUT IN	10:41:22
15 <	END JOB	10:42:06			

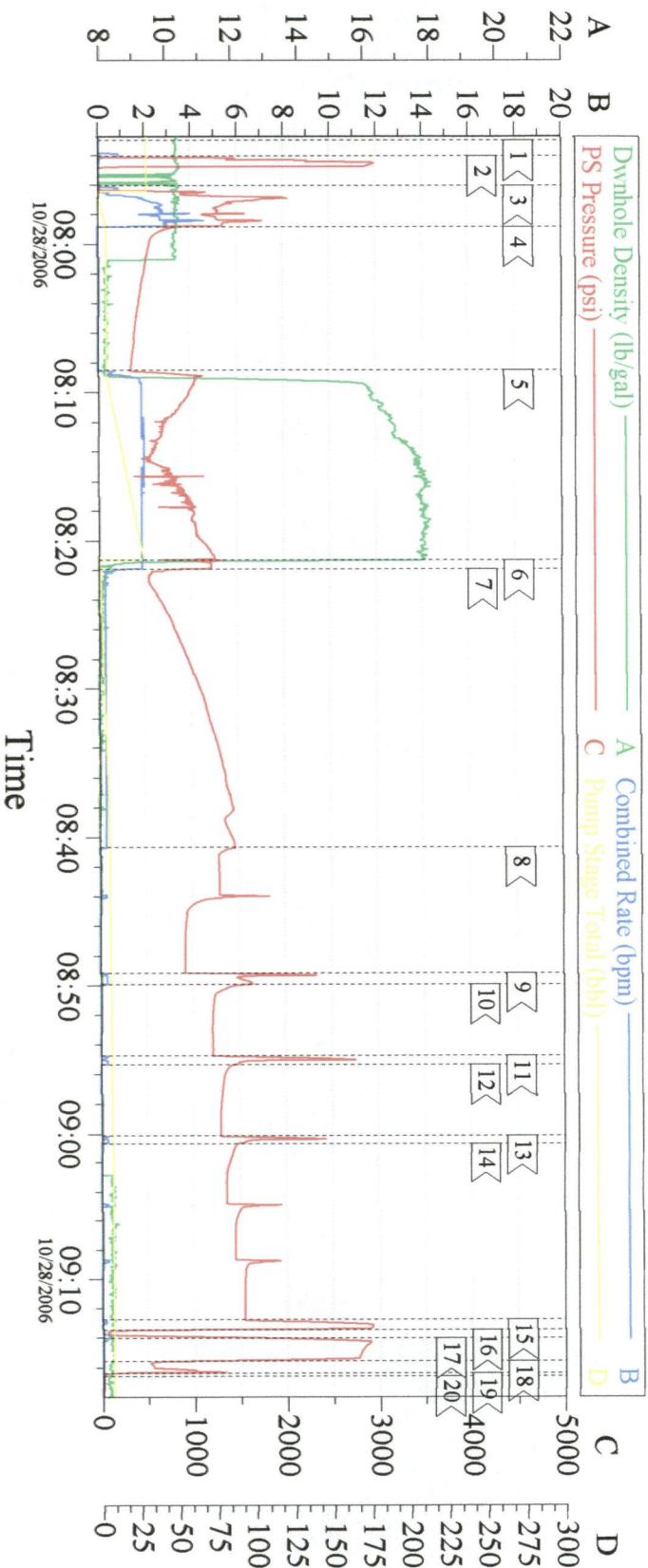
Customer: Williams Production
Well Description: GM
Lease: GM

Job Date: 10/27/06
Cementor: Mark Mayo
Well #: 256-2

Ticket #: 4710408
ADC Used: YES
Co. Rep.: BRIAN ODELL

CemWin v1.5.0
27-Oct-06 10:55

Squeeze 2



Event Log

1< START JOB	07:53:01	2< TEST LINES	07:54:04	3< START INJECTION TEST	07:56:01
4< SHUT DOWN / ISIP	07:58:50	5< START CEMENT	08:08:28	6< START DISPLACEMENT	08:21:19
7< SLOW RATE	08:21:55	8< STAGE CEMENT	08:40:37	9< SQUEEZE	08:49:07
10< STAGE	08:49:55	11< SQUEEZE	08:54:44	12< STAGE	08:55:20
13< SQUEEZE	09:00:07	14< STAGE	09:00:38	15< SQUEEZE	09:12:45
16< STAGE	09:13:29	17< SQUEEZE	09:14:01	18< STAGE	09:15:34
19< RELEASE PRESSURE	09:16:23	20< END JOB	09:16:35		

Customer: Williams Production
Well Description: GNM
Lease: GNM

Job Date: 10/28/06
Cement: Mark Mayo
Well #: 256-2

Ticket #: 4710408
ADC Used: YES
Co. Rep.: BRIAN O'DELL

CemWin v1.5.0
28-Oct-06 09:27

1 General

1.1 Customer Information

Company	PICEANCE VLY
Representative	
Address	

1.2 Well Information

Well	GM 256-2		
Project	GV 02-07S-096W	Site	GM 256-2 Pad
Rig Name/No.	Monument/6	Event	WORKOVER
Start date	10/24/2006	End date	11/2/2006
Spud date	2/3/2002	UWI	
Active datum	KELLY BUSHING @5,244.0ft (above Mean Sea Level)		
Afe No./Description	P06LOE /		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Code	Sub	Class	MD from (ft)	Operation
10/24/2006	6:00 7:00	1.00		PTST	2	P	0.0	WELL ON SALES
	7:00 11:00	4.00		BOP	1	P	0.0	MIRU, DIG OUT BRADEN FLANGE, PUMP KILL AND NUBOP.
	11:00 13:00	2.00		TRP	2	P	0.0	TRIP OUT OF HOLE PICK UP BRIDGE PLUG
	13:00 15:30	2.50		DEQ	1	P	0.0	TRIP IN HOLE SET BP AT 3800' PLACE SAND ON TOP OF BP
	15:30 16:30	1.00		TRP	2	P	0.0	POOH AND PICK UP PACKER
	16:30 18:00	1.50		TRP	2	P	0.0	TIH SET PACKER AT 1380' PRESSURE TEST BACKSIDE TO 1000 PSI, LOST 200 POUNDS IN EIGHT MIN. TESTED DOWN TUBING, NO TEST. SDFN.
	18:00 6:00	12.00		PTST	2	P	0.0	WELL SHUT IN
10/25/2006	6:00 7:00	1.00		PTST	2	P	0.0	WELL SHUT IN
	7:00 9:30	2.50		DEQ	2	P	0.0	SET PACKER AT 1530' PRESSURE TESTED BACKSIDE TO 1000 PSI, LOST 110 PSI IN 5 MIN. MOVE PACKER OT 1440', PRESSURE TESTED BACKSIDE TO 1000 PSI. LOST 110 PSI IN 5 MIN MOVE PACKER TO 1470' PRESSURE TESTED BACKSIDE TO 1000 PSI. NO TEST ISOLATED HOLE BETWEEN 1450' AND 1459'.
	9:30 10:30	1.00		WOT	2	P	0.0	WAIT ON ORDERS.
	10:30 11:00	0.50		TRP	2	P	0.0	POOH,LAY DOWN PACKER SDFN
	11:00 6:00	19.00		PTST	5	P	0.0	WELL SHUT IN FOR NIGHT
10/26/2006	6:00 7:00	1.00		PTST	5	P	0.0	WELL SHUT IN FOR NIGHT
	7:00 8:30	1.50		PERF	2	P	0.0	SHOOT TWO HOLES AT 1690'
	8:30 9:30	1.00		TRP	2	P	0.0	RUN PACKER IN HOLE AND SET AT 1350'
	9:30 13:00	3.50		CIRC	1	P	0.0	CIRCULATE WELL WITH DRILL MUD TO CONDITION HOLE. SDFN.
	13:00 6:00	17.00		PTST	5	P	0.0	WELL SHUT IN FOR NIGHT.
10/27/2006	6:00 7:00	1.00		PTST	5	P	0.0	WELL SHUT IN FOR NIGHT.
	7:00 8:00	1.00		CMT	1	P	0.0	RIG UP CEMENTERS
	8:00 9:00	1.00		CMT	2	P	0.0	CEMENT FROM 1690' TO SURFACE
	9:00 10:00	1.00		CMT	2	P	0.0	LET CEMENT SET

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Code	Sub	Class	MD from (ft)	Operation
10/28/2006	10:00 10:30	0.50		CMT	1	P	0.0	OPEN BYPASS ON PACKER AND REVERSE RIG DOWN CEMENTERS. SDFN.
	10:30 6:00	19.50		PTST	5	P	0.0	WELL SHUT IN WITH 600 PSI ON TUBING AND BACKSIDE OF PACKER.
	6:00 7:00	1.00		PTST	5	P	0.0	WELL SHUT IN WITH 600 PSI ON TUBING AND BACKSIDE OF PACKER.
	7:00 8:00	1.00		CMT	1	P	0.0	RIG UP CEMENTERS
	8:00 10:30	2.50		CMT	3	P	0.0	SQUEEZE OFF PERFS AT 1690' PUMP 150 SACKS. REVERSE OUT.
	10:30 11:30	1.00		TRP	2	P	0.0	TIP, AND SUCURE WELL, SDFN
10/30/2006	11:30 6:00	18.50		PTST	5	P	0.0	WELL SHUT IN
	6:00 7:00	1.00		PTST	5	P	0.0	WELL SHUT IN
	7:00 8:30	1.50		TRP	1	P	0.0	PU BIT NAD DRILL COLLARS
	8:30 17:30	9.00		TRP	2	P	0.0	TIH PRESSURE TEST HOLE AT 1450' PICK UP POWER SWIVEL, DRILL OUT CEMENT. TOP OF CEMENT AT 1500' BOTTOM OF CEMENT AT 1730' PRESSURE TESTED PERF HOLES TO 1000 PSI. TESTED OK! SDFN.
	17:30 6:00	12.50		PTST	5	P	0.0	WELL SHUT IN
10/31/2006		0.00					0.0	
	6:00 7:00	1.00		PTST	5	P	0.0	WELL SHUT IN
	7:00 9:00	2.00		TRP	2	P	0.0	POOH AND LAY DOWN DRILL COLLARS
	9:00 13:00	4.00		LOG	2	P	0.0	RUN CBL, WITH OUT PRESSURE, RUN CBL WITH 1000 PSI ON WELL
	13:00 14:30	1.50		DEQ	1	P	0.0	TIH, RELEASE PLUG
	14:30 17:00	2.50		TRP	2	P	0.0	POOH, LAY DOWN BRIDGE PLUG.SDFN
	17:00 6:00	13.00		PTST	5	P	0.0	WELL FLOWING ON 20/64 TO FLOW BACK OVER NIGHT.
11/1/2006	6:00 7:00	1.00		PTST	2	P	0.0	well flowing on 20/64 tubing closed in, 200psi casing flowing, 150,
	7:00 9:00	2.00		TRP	2	P	0.0	TIH,WITH NOTCH COLAR TAG FILL AT 4300'
	9:00 10:30	1.50		CIRC	1	P	0.0	CIRCULATE WELL
	10:30 14:00	3.50		CIRC	1	P	0.0	CLEAN OUT TO TOP OF PLUG AT 4413' CIRCULATE WELL FOR ONE HOUR.
	14:00 15:00	1.00		TRP	2	P	0.0	LAY DOWN 3 JOINTS LAND WELL AT 4320' NDBOP.
	15:00 17:00	2.00		PTST	2	P	0.0	FLOW TUBING ON 20/64 CHOKE TO BLOWDOWN TANK. SDFN
	17:00 6:00	13.00		PTST	2	P	0.0	FLOW TUBING
11/2/2006	6:00 7:00	1.00		PTST	2	P	0.0	FLOW TUBING
	7:00 8:00	1.00		LOC	4	P	0.0	RIG DOWN, MOVE OFF.
	8:00 12:00	4.00		PTST	2	P	0.0	FLOW TUBING TO BLOW DOWN TANK. PUMPED TOTAL OF 120 BBLS OF FLUID AND RECOVERED 80 BBLS BACK.