Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1109130

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 9855
Name: Grand Mesa Operating Company
Address 1: 1700 N WATERFRONT PKWY BLDG 600
Address 2:
City: WICHITA State: KS Zip: 67206 + 5514
Contact Person: Ronald N. Sinclair
Phone: (316) 265-3000
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Kent R. Matson
Purchaser: NCRA

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☑ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

10/31/2012	11/12/2012	01/01/2013
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-063-22054-00-00
Spot Description:
NE - SW - NW - NE Sec. 27 Twp. 13 S. R. 31 ☐ East ☑ West
757 Feet from ☑ North / ☐ South Line of Section
2013 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Gove
Lease Name: GLENNIS Well #: 4-27
Field Name: Wildcat
Producing Formation: Johnson
Elevation: Ground: 2860 Kelly Bushing: 2865
Total Vertical Depth: 4630 Plug Back Total Depth: 4616
Amount of Surface Pipe Set and Cemented at: 220 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2340 Feet
If Alternate II completion, cement circulated from: 0
feet depth to: 2340 w/ 250 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 11100 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 01/22/2013
☑ **Confidential Release Date:** 01/22/2015
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 01/23/2013

1109130

Operator Name: Grand Mesa Operating Company Lease Name: GLENNIS Well #: 4-27

Sec. 27 Twp. 13 S. R. 31 ☐ East ☑ West County: Gove

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	220	Common	165	3% CC; 2% Gel
Production	7.875	5.50	15.5	4627	EA-2	200	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☑ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	0-2340	SMD	250	
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	4481-4493		

TUBING RECORD: Size: 2.875 Set At: 4588 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 01/01/2013

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	65	0	0		31

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
4481-4493

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	GLENNIS 4-27
Doc ID	1109130

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect. Log
Comp. Sonic w/Integrated Transit Time
Micro. Log
Cement bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	GLENNIS 4-27
Doc ID	1109130

Tops

Name	Top	Datum
Stone Corral	2347	+518
Bs/Stone Corral	2370	+495
Heebner	3877	-1012
Lansing	3920	-1055
Muncie Creek	4072	-1207
Stark	4157	-1292
Marmaton	4260	-1395
Excello	4402	-1537
Mississippian	4519	-1654
LTD	4630	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

January 22, 2013

Ronald N. Sinclair
Grand Mesa Operating Company
1700 N WATERFRONT PKWY BLDG 600
WICHITA, KS 67206-5514

Re: ACO1
API 15-063-22054-00-00
GLENNIS 4-27
NE/4 Sec.27-13S-31W
Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Ronald N. Sinclair

CONSOLIDATED Oil Well Services, LLC

TICKET NUMBER 37241
LOCATION Oakley
FOREMAN Fuzzy

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

miles Show KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-31-12	3372	Glennis 4-27	27	13	31	Gove

CUSTOMER: Grand Mesa
MAILING ADDRESS:
CITY: STATE: ZIP CODE:

Oakley 5 - Gove Rd E, Rd 16, 5 - Rd P 1/2 E, 5 to ...

TRUCK #	DRIVER	TRUCK #	DRIVER
456	Chris (E)		
460	Jordan L		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220' CASING SIZE & WEIGHT 8 5/8
CASING DEPTH 220' DRILL PIPE TUBING OTHER
SLURRY WEIGHT 14.7 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT In CASING 20'
DISPLACEMENT 12.8 DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting on mutiple #24 Rig up and circulate mix 165 sks Class 'A' 3% cc 2% gel. Displace 12 3/4 BBL and shut in. Cement did circulate approx 4 BBLs to pit

Thanks Fuzzy & Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	1085.00	1085.00
5406	20	MILEAGE	5.00	100.00
5407	7.8 ton	Ton mileage Delivery (min)	410.00	410.00
11045	165 sks	Class 'A' cement	17.65	2912.25
1102	465 #	Calcium Chloride	.89	413.85
1118B	282 #	Bentonite	.25	70.50
		subtotal		4991.60
		less 10%		499.16
		subtotal		4492.44
			SALES TAX	246.09
Ravin 3737			ESTIMATED TOTAL	4738.53

AUTHORIZTION Anthony Neal TITLE Pusher Rig #24 DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

254215

JOB LOG

SWIFT Services, Inc.

DATE 11-12-12 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Grand Mesa	4-27	Glenais	Longstring	21964

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	1400							on Loc w/FE
								RTD 4630'
								5½" x 15.5# x 4630' x 14'
								Cent 2,4,6,8,10,12,14,54
								Bask 3,55
								P.C. 55 @ 2340'
	1545							Start FE
	1560							Break Circ
	1605	2.5	7/4					Plug RH & MH 30/15 EA-2
	1625	5	0			250		start 500 gal Mud flush
		5	12/0			250		Start KCL flush 20 bbl
		5	20/0			250		Start 155 sks EA-2 Cement
	1640		38					End Cement
								Wash P&L
								Drop L.D. Plug
	1648	6	0			450		Start Displacement
	1657	5	55			300		Catch Cement
	1705		110			550/1500		Land Plug
								Release pressure, Float Held
								Thank you
								Nick, David E. & Rob

JOB LOG

SWIFT Services, Inc.

DATE 11-16-12 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Grand Mesa	#4-27	Glennis	Port Collar	21967

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0850							on loc w/ P.C. Tool
	0900							start Tbg
								Locat P.C. @
	1015						1000	Test Csg to 1000 Psi
								Open P.C.
	1020	3	4			500		Take inj rate & check for Blow
	1025	4	0			500		Start Cement
		4	127			500		Circ cement raise weight
		4	132/0			500		End Cement / start Displacement
	1100		12.5					Cement Displaced
								Close P.C.
	1105						1000	Test Csg to 1000 Psi
								Run 5 jts
	1115	3	0				350	Rev out
	1125		25					Hole clean
								wash up Trk
								250 sks SMD
								circ 20 sks to pit
								Thank you
								Nick, David E. & Isaac

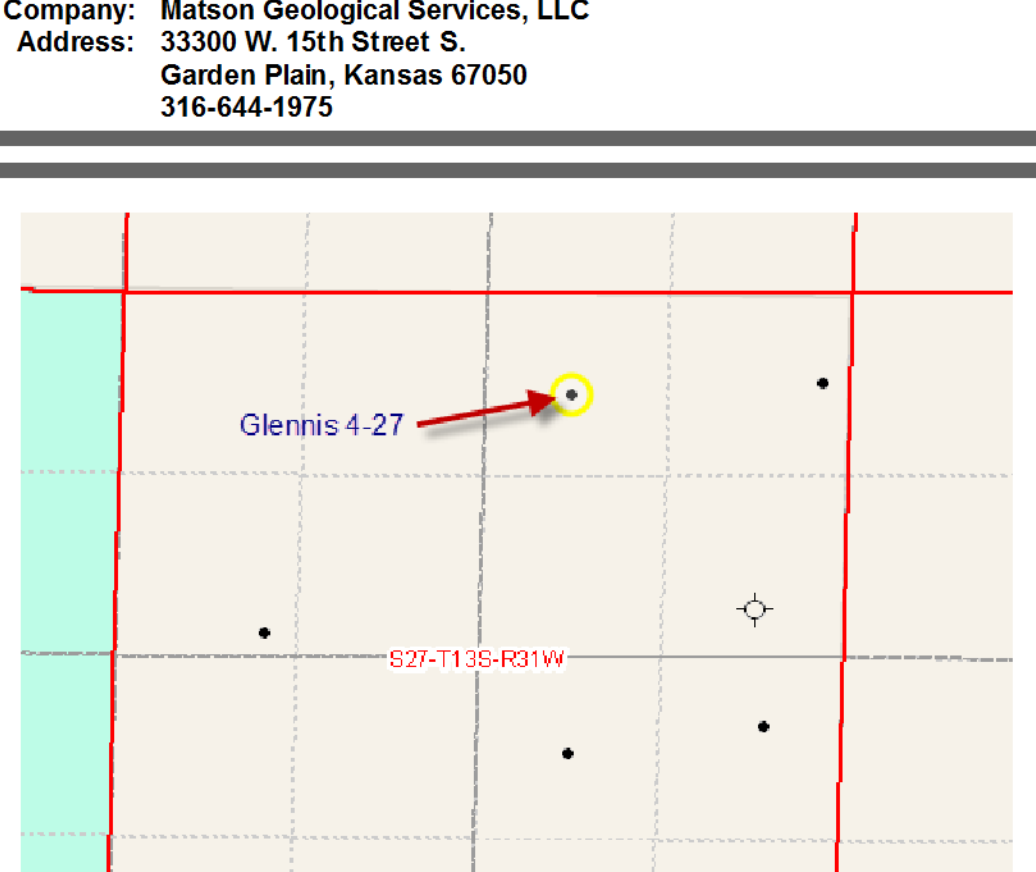
GRAND MESA OPERATING COMPANY
(316) 265-3000
FAX: (316) 265-3455
1700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Glennis #4-27
Location: 757' FNL, 2013' FEL, 27-13s-31w, Gove County, Kansas
License Number: API: 15-063-22054
Region: Gove County
Spud Date: 10/31/2012
Drilling Completed: 11/11/2012
Surface Coordinates: Lat: 38.9005413
Long: -100.7489496
Bottom Hole Coordinates: Vertical hole
Ground Elevation (ft): 2860'
K.B. Elevation (ft): 2865'
Logged Interval (ft): 3800' To: RTD
Total Depth (ft): 4630'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

GEOLOGIST

Name: Kent R. Matson
Company: Matson Geological Services, LLC
Address: 33300 W. 15th Street S.
Garden Plain, Kansas 67050
316-644-1975



COMMENTS

Contractor: Murfin Drilling Company Rig #24
Pusher: Tony Martin
Surface Casing: 8 5/8" set at 220' (KB) w/165sx
Production Casing: Production casing (5.5") was installed to RTD, based on field observations of drill cuttings, DST results and electric log evaluation.
Mud by: MudCo
DST's by: Diamond Testing
Logs by: Weatherford (DIL, CN-CD, ML, Sonic)
RTD = 4630'
LTD = 4630'

FORMATION TOPS

FORMATION	SAMPLE TOPS Depth	SAMPLE TOPS Datum	LOG TOPS Depth	LOG TOPS Datum
Queen Hill	3818'	-953	3817'	-952
Heebner Shale	3876'	-1011	3877'	-1012
Toronto	3902'	-1037	3903'	-1038
Lansing	3920'	-1055	3920'	-1055
Muncie Creek Shale	4072'	-1207	4072'	-1207
Stark Shale	4157'	-1292	4156'	-1291
Hushpuckney Shale	4195'	-1330	4194'	-1329
Marmaton	4260'	-1395	4260'	-1395
Upper Fort Scott	4352'	-1487	4352'	-1487
Little Osage Shale	4375'	-1510	4375'	-1510
Excello Shale	4402'	-1537	4402'	-1537
Johnson Zone	4479'	-1614	4478'	-1613
Morrow	4495'	-1630	4496'	-1631
Mississippian	4520'	-1655	4519'	-1654
RTD	4630'	-1765		
LTD			4630'	-1765

Geological Descriptions

Morning Report Depth/Activity
10/31/2012, Spud
11/01, dril @ 650'
11/02, dril @ 3190'
11/03, dril @ 3710'
11/04, DST#1 @ 3962'
11/05, DST#2 @ 4000'
11/06, dril @ 4095'
11/07, DST#5 @ 4130'
11/08, dril @ 4165'
11/09, dril 2 4310'
11/10, DST#8 @ 4502'
11/11, DST#9 @ 4543'
11/11, TD @ 4630'

Anhydrite: Top @ 2347', Botton @ 2368'

ROP Data begins @ 3600' on 11/03/2012

Drill cutting samples at 10' intervals start at 3800'.

LS: crm/lt gry, micro-fn xtal, foss frags/fusln/fn-med ool, vry sdy, some chalky, ppt-med oo-castic por w/min in-xtal por, no odor, ns.

LS: crm/lt gry, micro-med xtal, foss frags/fusln/med-coarse ool, some vry sndy, some vry chalky, min ppt-fn in-xtal por, no odor, ns.

LS: crm/lt gry/lt brn w/min dk brn, micro-med xtal, some sndy, foss frags/fn-med ool, min ppt in-xtal por, some lt-med gry some vry silty SH, no odor, ns.

LS: crm/, micro-fn xtal, some foss frags, some vry sndy, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, some foss frags, some vry sndy, some wht chalk, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/fusln, vry sndy, wht/lt brn chert, min pyrite, ppt-fn in-xtal por w/min frac por, no odor, ns.

LS: crm, micro-med xtal, foss frags/fusln, vry silty/sndy, some wht chalk, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt gry, micro-med xtal, foss frags/fusln/brac, some vry sndy, min in-xtal/frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, some stly sndy, foss frags/fusln, min in-xtal/frac por, no odor, ns.

SH: blk, carb, firm, fissile.

LS: crm/lt gry, micro-fn xtal, min foss frags/some dk gry ool, vry sndy, some vry SHly, min frac por, no odor, ns.

LS: crm, micro-fn xtal, min foss frags, some vry sndy, flood of red brn soft-firm SH, min frac por, ns.

LS: crm, micro-fn xtal, some foss frags, silty, some wht chalky pcs, stly pyritic, min frac por, ns.

LS: crm/lt gry, micro-med xtal, foss frags/abund ool, some vry sndy, some ppt-med-in-ool por, ns.

LS: crm, micro-med xtal, foss frags/ w/some abund ool, some wht soft chalk, some vry sndy, gd ppt-med oo-castic por, ns.

LS: crm/lt brn, micro-fn xtal, some foss frags, 15 pcs w/ppt-med in-xtal por w/sfo, crush odor, yel flor/cut, gsfo.

LS: crm/lt brn, micro-med xtal, foss frags/abund ool, 28 pcs w/gd ppt-med in-ool/in-xtal por, yel flor/cut, cup odor, gsfo.

LS: crm, micro-med xtal, foss frags/ some abund ool, wht/lt brn chert, gd ppt-med in-ool por, cup odor, yel flor/cut, 58 pcs in 30" smpl and 49 pcs in 60" smpl w/sfo, vgsfo.

LS: crm/lt brn/gry, micro-med xtal, foss frags/some ool pcs, some sndy, some chalky, min frac por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, min foss frags, some vry silty, stly pyritic, some wht chalky, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags/brac, some gd 2ndry xtal, most dense w/3 pcs w/ppt-med in-xtal por w/sfo, slt cup odor, yel flor/cut, ssfo.

LS: crm/lt brn, micro-med xtal, min foss frags/min ool, some wht chert, ppt-coarse por, 33 pcs w/sfo in 30 min and 19 pcs in 60 min, slt odor, yel flor/cut, gsfo.

LS: crm/lt-med brn, micro-med xtal w/some crse 2ndry xtal, foss frags/some abund dense ool, 24 pcs in stop smpl w/ppt-vug por w/sfo cup odor, 30 min mostly dense w/1 pce and 3 pcs in 60 min w/ppt in-xtal por w/sfo, ssfo.

LS: crm/lt brn, micro-fn xtal, min foss frags, some vry silty, some wht chalk pcs, min ppt/in-xtal por, no odor, ns.

LS: crm/lt brn, micro-med xtal, min foss frags, flood of wht/lt brn chert, min pyritic, min frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, min foss frags/min ool, some wht chalky pcs, min frac por, no odor, ns.

LS: crm/lt gry, micro-med xtal w/some gd 2ndry xtal, min foss frags/some abund dense ool, some wht chalky pcs, min frac por, no odor, ns.

LS: crm/lt gryish crm, micro-med xtal, min foss frags, some lt gry/brn silty SH, min frac por, no odor, ns.

LS: crm/lt-med gry, micro-med xtal, min foss frags/fusln, min wht chert, no odor, ns.

SH: blk, carb, firm, fissile.

LS: lt-med brn, micro-med xtal, some grainy/sndy, foss frags/fusln, min frac por, 4 grainy pcs w/ppt-fn por w/sfo, no crush odor, yel flor/cut, ssfo.

LS: crm/lt brn, micro-med xtal w/some gd 2ndry xtal, min foss frags, min lt gry chert, 1 pcs crm ppt-med por w/sfo, slt crush odor, yel flor/cut, ssfo.

LS: crm/lt brn, micro-fn xtal w/some gd 2ndry xtal, min foss frags, wht/lt brn chert, 26 pcs in 30 min and 4 pcs in 60 min smpls w/ppt-med in-xtal por w/sfo, slt cup odor, gsfo.

SH: lt greenish gry/gry-dk gry, firm-hard, some carb, stly silty, fissile.

LS: crm/lt-med brn/lt gry, micro-med xtal w/some coarse 2ndry xtal, foss frags/gastro/brac, stly pyritic, min frac por, no odor, ns.

LS: crm/-lt brn, micro-med xtal, foss frags/fusln/some ool pcs, some stly silty, ppt-coarse w/some vug in-xtal por, cup odor, 53 pcs w/sfo, yel flor/cut, vgsfo.

LS: crm/lt brn, micro-med xtal, foss frags/ w/min ool, some stly chalky pcs, 15 pcs in 30 min smpl and 19 pcs in 60 min smpl w/ppt-coarse por w/sfo, cup odor, yel flor/cut, gsfo.

LS: crm/lt gry/lt brn, micro-med xtal, foss frags/abund ool, stly pyritic, some stly chalky, 48 pcs w/ppt-coarse oo-castic in-xtal por w/sfo, strg cup odor, yel flor/cut, gsfo, min frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/crin/fusln/ool, stly pyritic, 4 pcs w/ppt-coarse in-xtal por w/sfo, cup odor, yel flor/cut, sfo.

LS: crm/lt-med brn/lt-med gry, micro-med xtal, foss frags/fusln/min ool, wht-lt gry chert, pyritic, min frac por w/2 ool pcs w/oo-castic por and sfo (poss from above) in 60 min smpl, no odor, ssfo.

SH: dk gry/blk, carb, firm, fissile.

LS: crm/lt-med brn/lt gry, micro-med xtal, foss frags/fusln/crin/ool, pyritic, min oo-castic/frac por, slt crush odor, 1 pcs w/oo-castic por w/sfo, ssfo.

LS: crm/lt brn, micro-med xtal, foss frags/some ool, 68 pcs in 30 min smpl and 51 pcs in 60 min w/ppt-coarse in-xtal por w/sfo, strg odor, yel flor/cut, vgsfo.

LS: crm/lt brn/lt gry, micro-fn xtal, min foss frags/fusln/min ool, wht/lt brn chert, min frac por w/4 pcs w/ppt-med por w/sfo, slt odor, yel flor/cut, sfo.

LS: crm/lt-dk brn, micro-fn xtal, foss frags, stly pyritic, stly sndy, min frac por, no odor, ns.

SH: dk gry/blk, carb, firm-hard, fissile.

LS: crm/lt gry, micro-fn xtal, foss frags, some sndy, min in-xtal/frac por, flood of lt-med gry/red brn silty soft-firm SH, no odor, ns.

LS: med-dk brn, micro-fn xtal, min foss frags, no vis por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, min foss frags, some vry silty, some lt gry chert, min frac por, no odor, ns.

LS: crm/gry/lt brn, micro-fn xtal, min foss frags, lt-med gry vry silty soft-firm SH, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, some vry silty, some chalky, min foss frags, min in-xtal/frac por, no odor, ns.

LS: crm/lt-med brn/lt gry, micro-med xtal w/some 2ndry xtal, min foss frags, min in-xtal/frac por, no odor, ns.

LS: crm/lt brn/lt gry w/yel mottling, micro-med xtal, min foss frags/fusln, some wht chalky pcs, min frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal w/2ndry xtal, min foss frags/fusln, min in-xtal/frac por, some lt gry/gry silty SH, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags/fusln, grainy, no vis por, no odor, ns.

LS: crm/-lt brn/lt gry, micro-med w/some coarse xtal, min foss frags, min in-xtal por, some lt-dk gry/red brn silty SH, no odor, ns.

LS: crm/lt brn-brn, micro-med xtal, min foss frags/some dense ool pcs, min in-xtal/frac por, ns.

LS: crm/lt brn, micro-fn xtal, min foss frags, lt gry/lt brn/orange chert, no vis por, no odor, ns.

LS: crm/lt gry, micro-fn xtal, min foss frags, some lt gry/lt brn chert, no vis por, some greenish gry/lt-med gry silty soft-firm SH, no odor, ns.

LS: brn, micro-fn xtal, some vry sndy, foss frags/fusln, flood of lt-med gry/red brn firm silty SH, no vis por, no odor, ns.

LS: crm/lt gry, micro-fn xtal, foss frags, some vry sndy, no vis por, no odor, flood of lt-med gry/red brn SH, ns.

SH: lt-med gry/red brn, vry silty, firm.

LS: crm/lt brn, micro-fn xtal, min foss frags, some sndy, wht/lt gry chert, stly pyritic, no vis por, no odor, ns.

LS: crm/lt gry, micro-med xtal, some foss frags, min frac por, flood of lt-med gry/red brn silty SH, no odor, ns.

LS: crm/lt-med brn, micro-fn xtal, min foss frags, dense w/1 pcs w/ppt por w/sfo, dull yel flor/slow cut, no odor, ssfo.

SH: med-dk gry/blk, some vry silty pcs, stly carb, firm-vry firm, fissile.

LS: crm/lt gry, micro-fn xtal, foss frags/fusln, some silty/sndy, min ppt-fn in-xtal/frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal w/2ndry xtal, min foss frags, stly pyritic, min ppt in-xtal por, no odor, ns.

SH: dk gry/blk, carb, firm-hard, fissile.

LS: lt gry/lt brn, micro-med xtal, some foss frags/dense ool, min frac por, ns.

LS: crm/lt-med brn, micro-med xtal, foss frags, wht/lt gry/lt brn chert, ppt in-xtal por, no odor, ns.

LS: crm/med-dk brn, micro-med xtal, foss frags/min ool, wht/lt brn chert, no vis por, no odor, ns.

SH: lt-med gry, vry silty, soft-firm, stly carb.

LS: crm/lt brn, micro-med xtal, foss frags, wht/lt gry chert, min frac por, no odor, ns.

LS: crm/lt gry/lt brn, micro-med xtal, some foss frags, some 2ndry xtal, some wht chalky pcs, no vis por, no odor, ns.

SH: lt-dk gry, some vry silty, stly carb, firm, stly siltstn, firm.

LS: crm/lt-med brn, micro-med xtal, foss frags, some silty/sndy, min in-xtal/frac por, no odor, ns.

SH: greenish gry/lt-med gry, vry silty, carb, soft.

LS: crm/lt-med brn, micro-med xtal, foss frags, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags, 10 pcs w/ppt-coarse in-xtal por w/sfo, cup odor, dull yel flor/cut, sfo.

LS: crm/lt brn, micro-med xtal, foss frags, 16 pcs w/ppt-med w/some coarse por w/sfo, cup odor, yel flor/cut, gsfo.

LS: crm/lt brn, micro-med xtal, foss frags, slt cup odor in 30 and 60 min smpls, 6 pcs in 30 min and 3 pcs in 60 min smpls w/sfo, yel flor/cut, sfo.

SH/SS mix: SH is greenish gry/lt-dk gry/red brn/mustard yel, vry silty, soft-firm, ns; SS is lt-med gry, pred qtz, vf-f, sr-wr, friable, odor from Johnson dumped oil, ns.

SS: lt brnish wht, vf-med, sr-wr, friable, strg odor, dull yel flor, all pcs have sfo.

Sample was flood of oil saturated SS, from electric log assume zone was LS.

Same as above.

LS: wht/crm/lt brn/lt gry, micro-med xtal, some vry sndy, wht chalky pcs, abund lt-dk brn/orangeish brn chert, min foss frags/some dense ool pcs, min frac por, oil odor from above sand, ns.

LS: crm/lt-med brn, micro-med xtal, some vry sndy w/fn-c qtz, some dense ool pcs, min frac por, odor from above sand, ns.

LS: wht/crm/lt brn, micro-fn xtal, some vry sndy pcs, some vry chalky, min frac por, odor from above sand, ns.

LS: lt gryish brn/lt brn, micro-med xtal, foss frags, min wht chert, some sndy pcs, no vis por, odor from above sand, ns.

LS: crm/lt brn, micro-med xtal, some dense ool pcs, some sndy pcs, some wht chalky pcs, no vis por, odor from above sand, ns.

LS: crm/lt gry/lt brn, micro-med xtal, some dense ool pcs, some vry sndy, some lt gry chert, min pyritic, min frac por, odor from above sand, ns.

LS: crm/lt-med brn, micro-med xtal, some dense ool pcs, some sndy pcs, abund wht/lt gry chert, min frac por, slt odor from above sand, ns.

LS: lt-med brn/dk gry, micro-med xtal, abund dense ool, some lt gry chert, min in-xtal por, no odor, ns.

LS: lt brn/med-dk gry, micro-med xtal, abund coarse grained ool, min frac por, no odor, ns.

Remarks

Mudco Check #1: @ 0' 10/31/12, predrilling instructions.

Mudco Check #2 @ 3225' 11/01/12 07:30 am
wt vis pH chl
9.4 30 7.0 19000
Filt LCM
n/c tr

Mudco Check #3 @ 3705' 11/03/12 08:50 am
wt vis pH chl
8.9 54 11 2000
Filt LCM
7.2 3

DST1) 3936-3962 C-Zone
30/45/60/90
1st) Strong blow built to BOB in 8 min, no BB.
2nd) Strong blow built to BOB in 17.5 min, no BB.
IFP 29-186#
ISIP 926#
FFP 191-340#
FSIP 922#
HP 1893-1891#
Recvd: 10' CO, 40' OMCW (5% oil), 670' W.

CFS @ 3962' 30"/60"

Mudco Check #4 @ 3962' 11/04/12 07:00 am
wt vis pH chl
9.1 54 11 3000
Filt LCM
8.0 3

Mudco Check #5 @ 4000' 11/05/12 09:00 am
wt vis pH chl
9.1 56 10.5 3400
Filt LCM
7.2 3

CFS @ 4000' 30"/60"

DST2) 3987-4000 E-Zone
30/45/60/90
1st) Strong blow built to BOB in 6.5 min, BB built to 5".
2nd) Strong blow built to BOB in 10.5 min, BB built to 5.5".
IFP 37-143#
ISIP 1165#
FFP 154-294#
FSIP 1141#
HP 1953-1951#
Recvd: 545' GIP, 225' CO, 470' OSW (2% O).

CFS @ 4011' 30"/60"

DST3) 4000-4011 F-Zone
30/30/15/15
1st) Weak surface blow died in 10 min, no BB.
2nd) Weak surface blow died in 5 min, no BB.
IFP 7-20#
ISIP 1197#
FFP 21-26#
FSIP 1175#
HP 1912-1906#
Recvd: 10' OSM.

Mudco Check #6 @ 4099' 11/06/12 08:15 am
wt vis pH chl
9.2 53 10.0 3000
Filt LCM
8.0 3

CFS @ 4099' 30"/60"

DST4) 4063-4099 H-Zone
30/45/60/90
1st) Weak blow built to 4", no BB.
2nd) Weak blow built to 11", no BB.
IFP 9-25#
ISIP 1197#
FFP 27-49#
FSIP 1213#
HP 1950-1946#
Recvd: 180' GIP, 10' CO, 60' GCHOCM (30% O).

CFS @ 4130' 30"/60"

Mudco Check #7 @ 4130' 11/07/12 11:55am
wt vis pH chl
9.2 51 10.0 3200
Filt LCM
7.2 3

DST5) 4110-4130 I-Zone
30/45/60/90
1st) Weak blow built to 4", no BB.
2nd) Weak blow built to 6", no BB.
IFP 9-21#
ISIP 1155#
FFP 24-39#
FSIP 1139#
HP 1980-1975#
Recvd: 120' GIP, 5' CO, 60' GCSWOCM (22% O).

CFS @ 4175' 30"/60"

DST6) 4129-4160 J-Zone
30/45/45/60
1st) Weak surface blow built to 1", no BB.
2nd) Surface blow died in 30 min, no BB.
IFP 9-17#
ISIP 1110#
FFP 18-27#
FSIP 1106#
HP 2008-2000#
Recvd: 30' SOSM.

Mudco Check #8 @ 4175' 11/08/12 11:00am
wt vis pH chl
9.2 61 11.0 3500
Filt LCM
7.2 3

DST7) 4155-4175 K-Zone
NOTE: Low levels H_2S Gas.
30/45/45/90
1st) Strg blow built to BOB in 4 min, BOB BB in 27 min.
2nd) Strg blow built to BOB in 5 min, BOB BB in 10 min.
IFP 24-166#
ISIP 1118#
FFP 171-314#
FSIP 1120#
HP 2022-2012#
Recvd: 3000' GIP, 100' CO, 560' reversed out 20% wtr/80% oil, 120' OSMCW
NOTE: Low levels H_2S Gas.

Mudco Check #9 @ 4340' 11/09/12 10:00am
wt vis pH chl
9.2 56 10.5 3000
Filt LCM
8.8 3

CFS @ 4415' 30"/60"

DST8) 4461-4502 Johnson
30/45/45/90
1st) Strg blow BOB in 1 min, BOB BB in 4 min.
2nd) Strg blow BOB in 1.5 min, BOB BB in 6 min.
IFP 311-825#
ISIP 1111#
FFP 851-1064#
FSIP 1122#
HP 2232-2197#
Recvd: GIP to surface, 2770' GCO, 120' GCMO (45% oil).

CFS @ 4502' 30"/60"

Mudco Check #10 @ 4502' 11/10/12 07:00am
wt vis pH chl
9.4 51 10.5 2500
Filt LCM
7.2 3

Mudco Check #11 @ 4543' 11/11/12 08:30am
wt vis pH chl
9.3 54 10.0 3000
Filt LCM
7.6 3

CFS @ 4543' 30"/60"

DST9) 4500-4543 Morrow
30/45/60/90
1st) Fairly strg blow built to BOB in 13 min, BB built to 3.5".
2nd) Strg blow built to BOB in 6 min, BB built to 7.5".
IFP 37-115#
ISIP 1027#
FFP 117-177#
FSIP 995#
HP 2230-2227#
Recvd: 620' GIP, 200' CO, 90' GCHMCO (50% oil), 90' HGCMO (40% oil).

CFS @ 4630', 30"/60", Cir 1.5 hrs total to clean hole.

Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co.	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co	**Unique Well ID**	DST #1 "C" zone (3936'-3962')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F042
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottom Hole	**Test Purpose**	Initial Test
Formation	"C" zone (3936'-3962')	**Gauge Name**	0062
Start Test Date	2012/11/04	**Start Test Time**	03:48:00
Final Test Date	2012/11/04	**Final Test Time**	12:21:00

Test Results

Recovered:	10'	Clean Oil	100% oil	.14 BBL
	40'	OMCW	5% oil, 75% wtr, 20% mud	.57 BBL
	670'	Salt Water	100% wtr	8.4 BBL
	-----	No GIP		
	-----	Total fluid recovered: 720'		9.11 BBL
	-----	Gravity: 31 (corrected to 60 deg F)		
	-----	Chlorides: 58,000 ppm		
	-----	RW: .14 ohm @ 64 deg F		
	-----	PH: 7.5		
	-----	Tool Sample: OSW	2% oil, 98% wtr	

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: glennis4dst1

TIME ON: 03:48
TIME OFF: 12:21

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27

Contractor MDC #24 Charge to Grand Mesa Operating Co.

Elevation 2865' KB Formation "C" zone Effective Pay ---- Ft. Ticket No. F042

Date 11.4.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS

Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 3936 ft. to 3962 ft. Total Depth 3962 ft.

Packer Depth 3931 ft. Size 6 3/4 in. Packer depth ---- ft. Size 6 3/4 in.

Packer Depth 3936 ft. Size 6 3/4 in. Packer depth ---- ft. Size 6 3/4 in.

Depth of Selective Zone Set ----

Top Recorder Depth (Inside) 3915 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3959 ft. Recorder Number 11033 Cap. 5,150 P.S.I.

Below Straddle Recorder Depth ---- ft. Recorder Number ---- Cap. ---- P.S.I.

Mud Type Chemical Viscosity 54 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length ---- ft. I.D. 2 7/8 in

Chlorides 3000 P.P.M. Drill Pipe Length 3783 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 26 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Strong blow, increased to BOB in 8 minutes. No blowback.

2nd Open: Strong blow, increased to BOB in 17.5 minutes. No blowback.

Recovered 10 ft. of	Clean Oil	100% oil	.14 BBL
Recovered 40 ft. of	OMCW	5% oil, 75% wtr, 20 % mud	.57 BBL
Recovered 670 ft. of	Salt Water	100% wtr	8.4 BBL
Recovered ---- ft. of	No GIP		
Recovered ____ ft. of			
Recovered ____ ft. of			

Remarks: Total Fluid Recovered: 720' ====== 9.11 BBL

Tool Sample: OSW 2% oil, 98% wtr

Gravity: 31 (corrected to 60 deg F), Chlorides: 58,000 ppm, RW: .14 ohm @ 64 degF, PH: 7.5

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 5:45 am A.M. P.M. Time Started Off Bottom 9:30 am A.M. P.M. Maximum Temperature 124 deg F

Initial Hydrostatic Pressure ..... (A) 1893 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 29 P.S.I. to (C) 186 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 926 P.S.I.

Final Flow Period ..... Minutes 60 (E) 191 P.S.I. to (F) 340 P.S.I.

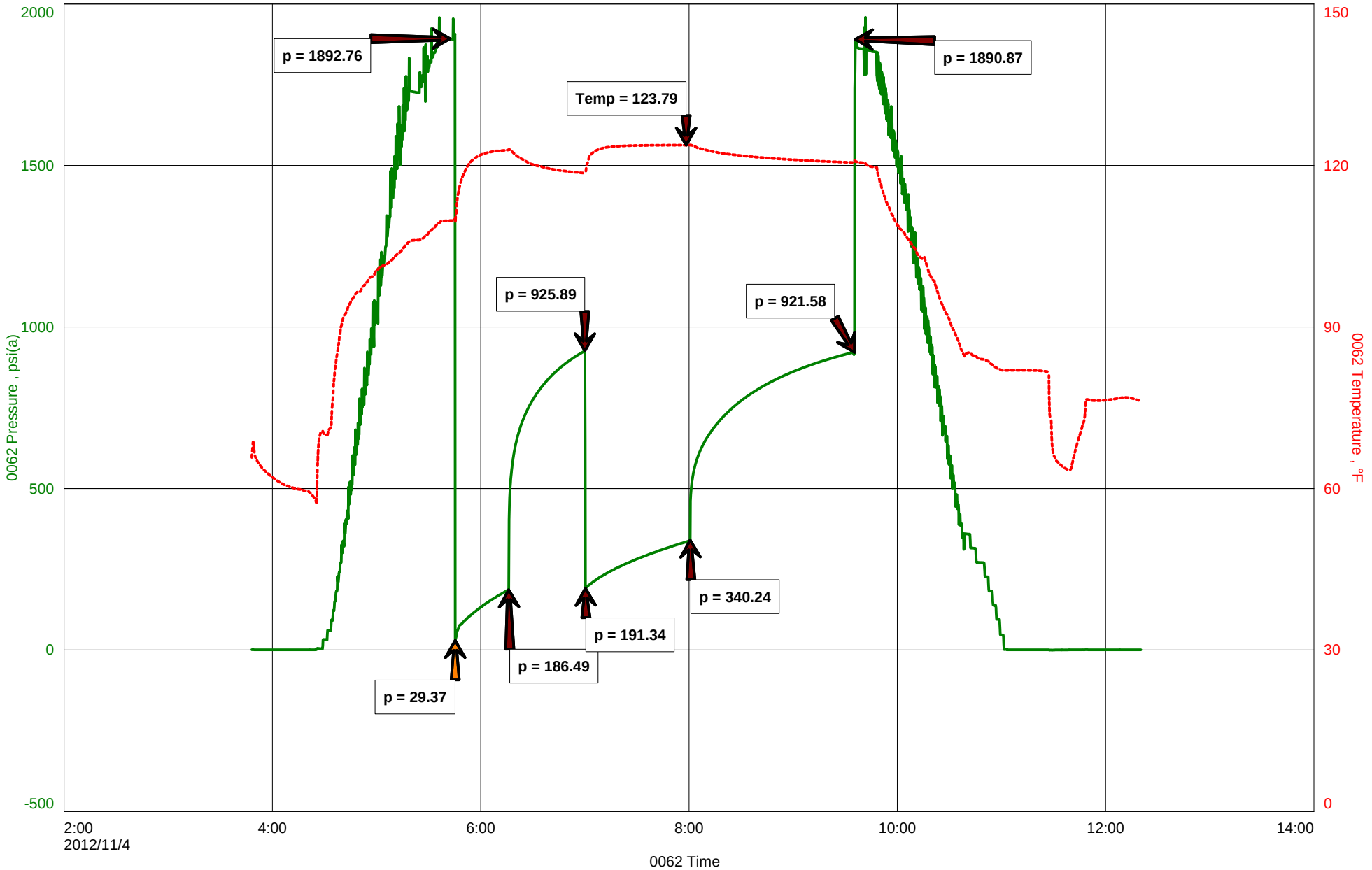
Final Closed In Period ..... Minutes 90 (G) 922 P.S.I.

Final Hydrostatic Pressure ..... (H) 1891 P.S.I.

Grand Mesa Operating Co.
DST #1 "C" zone (3936'-3962')
Start Test Date: 2012/11/04
Final Test Date: 2012/11/04

Glennis #4-27
Formation: "C" zone (3936'-3962')
Pool: Wildcat
Job Number: F042

Glennis #4-27



Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co.	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co.	**Unique Well ID**	DST #2 "E" zone (3987'-4000')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F043
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottom Hole	**Test Purpose**	Initial Test
Formation	"E" zone (3987'-4000')	**Gauge Name**	0062
Start Test Date	2012/11/04	**Start Test Time**	21:40:00
Final Test Date	2012/11/05	**Final Test Time**	06:44:00

Test Results

Recovered:	225'	Clean Oil	100% oil	3.2 BBL
	470'	OSW	2% oil, 98% wtr	5.1 BBL
	-----	Total Fluid Recovered: 695'		8.3 BBL
	-----	545' Gas In Pipe		
	-----	Gravity: 36 (corrected to 60 degF)		
	-----	Chlorides: 55,000 ppm		
	-----	RW: .19 ohm @ 45 deg F		
	-----	PH: 7.5		
	-----	Tool Sample: OCW	15% oil, 85% wtr	

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: glennis4dst2

TIME ON: 21:40 11-4
TIME OFF: 06:44 11-5

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27

Contractor MDC #24 Charge to Grand Mesa Operating Co.

Elevation 2865' KB Formation "E" zone Effective Pay ---------- Ft. Ticket No. F043

Date 11.5.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS

Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 2 Interval Tested from 3987 ft. to 4000 ft. Total Depth 4000 ft.

Packer Depth 3982 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Packer Depth 3987 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Depth of Selective Zone Set ----------

Top Recorder Depth (Inside) 3966 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 3997 ft. Recorder Number 11033 Cap. 5,150 P.S.I.

Below Straddle Recorder Depth ---------- ft. Recorder Number --------- Cap. --------- P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length ---------- ft. I.D. 2 7/8 in

Chlorides 3000 P.P.M. Drill Pipe Length 3834 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 13 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Strong blow, BOB 6.5 minutes. Blowback built to 5".

2nd Open: Strong blow, BOB 10.5 minutes. Blowback built to 5.5".

Recovered 225 ft. of Clean Oil 100% oil 3.2 BBL

Recovered 470 ft. of OSW 2% oil, 98% wtr 5.1 BBL

Recovered ---------- ft. of 545' GIP

Recovered ---------- ft. of

Recovered ---------- ft. of

Recovered ---------- ft. of

Recovered ---------- ft. of

Remarks: Total Fluid Recovered: 695' ====== 8.3 BBL

Tool Sample: O1953CW 15% oil, 85% wtr

Gravity: 36 (corrected), Chlorides 55,000 ppm, RW: .19 ohm @ 45 degF, PH: 7.5

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 11:30 pm A.M./P.M. Time Started Off Bottom 3:15 am A.M./P.M. Maximum Temperature 124 deg F

Initial Hydrostatic Pressure ..... (A) 1953 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 37 P.S.I. to (C) 143 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1165 P.S.I.

Final Flow Period ..... Minutes 60 (E) 154 P.S.I. to (F) 294 P.S.I.

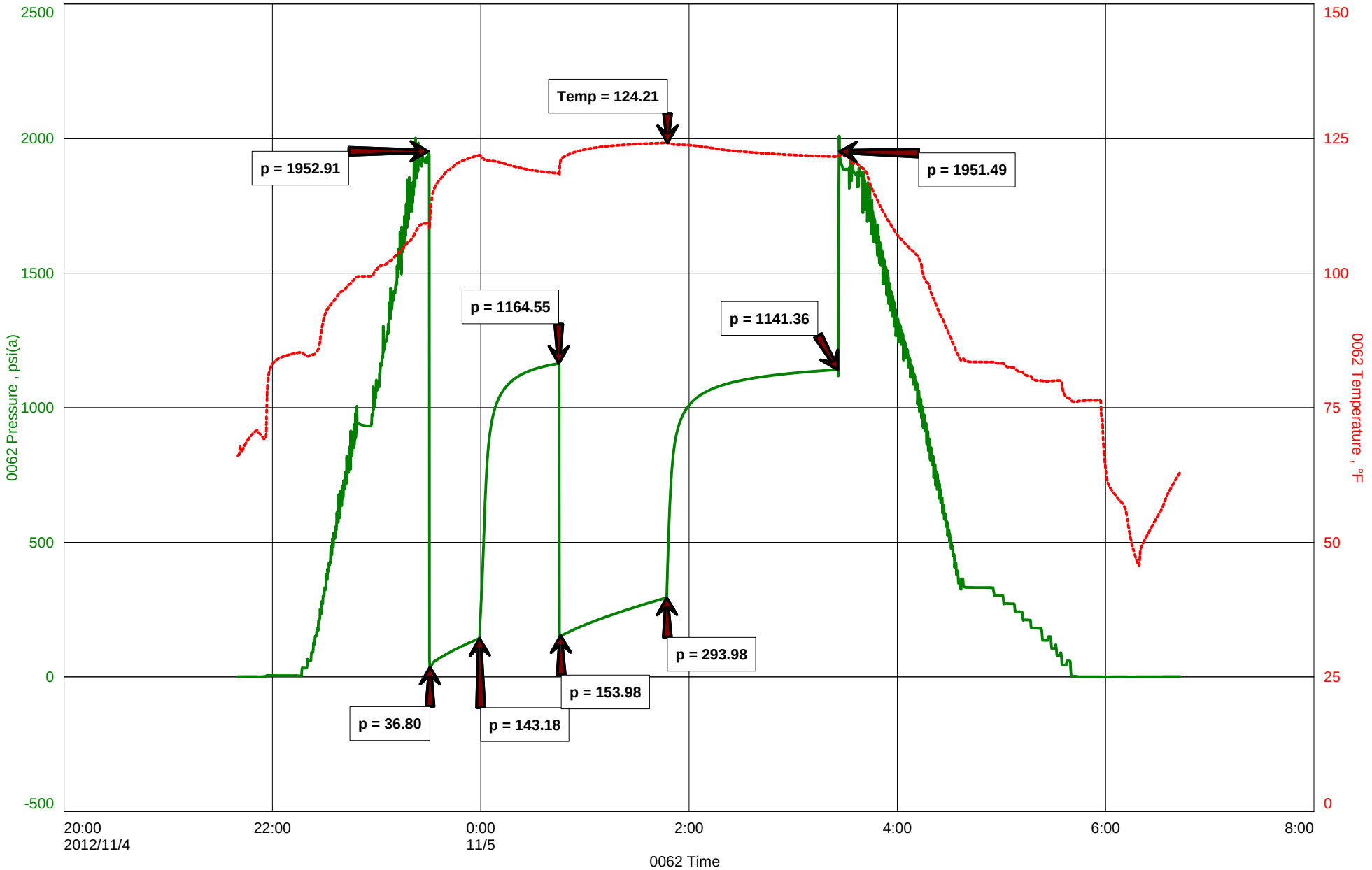
Final Closed In Period ..... Minutes 90 (G) 1141 P.S.I.

Final Hydrostatic Pressure ..... (H) 1951 P.S.I.

Grand Mesa Operating Co.
DST #2 "E" zone (3987'-4000')
Start Test Date: 2012/11/04
Final Test Date: 2012/11/05

Glennis #4-27
Formation: "E" zone (3987'-4000')
Pool: Wildcat
Job Number: F043

Glennis #4-27



Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co.	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co.	**Unique Well ID**	DST #3 "F" zone (4000'-4011')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F044
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottom Hole	**Test Purpose**	Initial Test
Formation	"F" zone (4000'-4011')	**Gauge Name**	0062
Start Test Date	2012/11/05	**Start Test Time**	14:46:00
Final Test Date	2012/11/05	**Final Test Time**	19:13:00

Test Results

Recovered: 10' OSM 2% oil, 98% mud
---- Tool Sample: OSM 2% oil, 98% mud

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET

FILE: glennis4dst3

TIME ON: 14:46

TIME OFF: 19:13

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27

Contractor MDC #24 Charge to Grand Mesa Operating Co.

Elevation 2865' KB Formation "F" zone Effective Pay ____ Ft. Ticket No. F044

Date 11.5.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS

Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 3 Interval Tested from 4000 ft. to 4011 ft. Total Depth 4011 ft.

Packer Depth 3995 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Packer Depth 4000 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Depth of Selective Zone Set ----------

Top Recorder Depth (Inside) 3979 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4008 ft. Recorder Number 11033 Cap. 5,150 P.S.I.

Below Straddle Recorder Depth ---------- ft. Recorder Number --------- Cap. --------- P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length --------- ft. I.D. 2 7/8 in

Chlorides 3000 P.P.M. Drill Pipe Length 3847 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 11 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Weak surface blow, dead in 10 minutes.

2nd Open: Weak surface blow, dead in 5 minutes.

Recovered 10 ft. of OSM 2% oil, 98% mud

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Tool Sample: OSM 2% oil, 98% mud

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 4:07 pm A.M. P.M. Time Started Off Bottom 5:37 pm A.M. P.M. Maximum Temperature 109 deg F

Initial Hydrostatic Pressure ..... (A) 1912 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 7 P.S.I. to (C) 20 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 1197 P.S.I.

Final Flow Period ..... Minutes 15 (E) 21 P.S.I. to (F) 26 P.S.I.

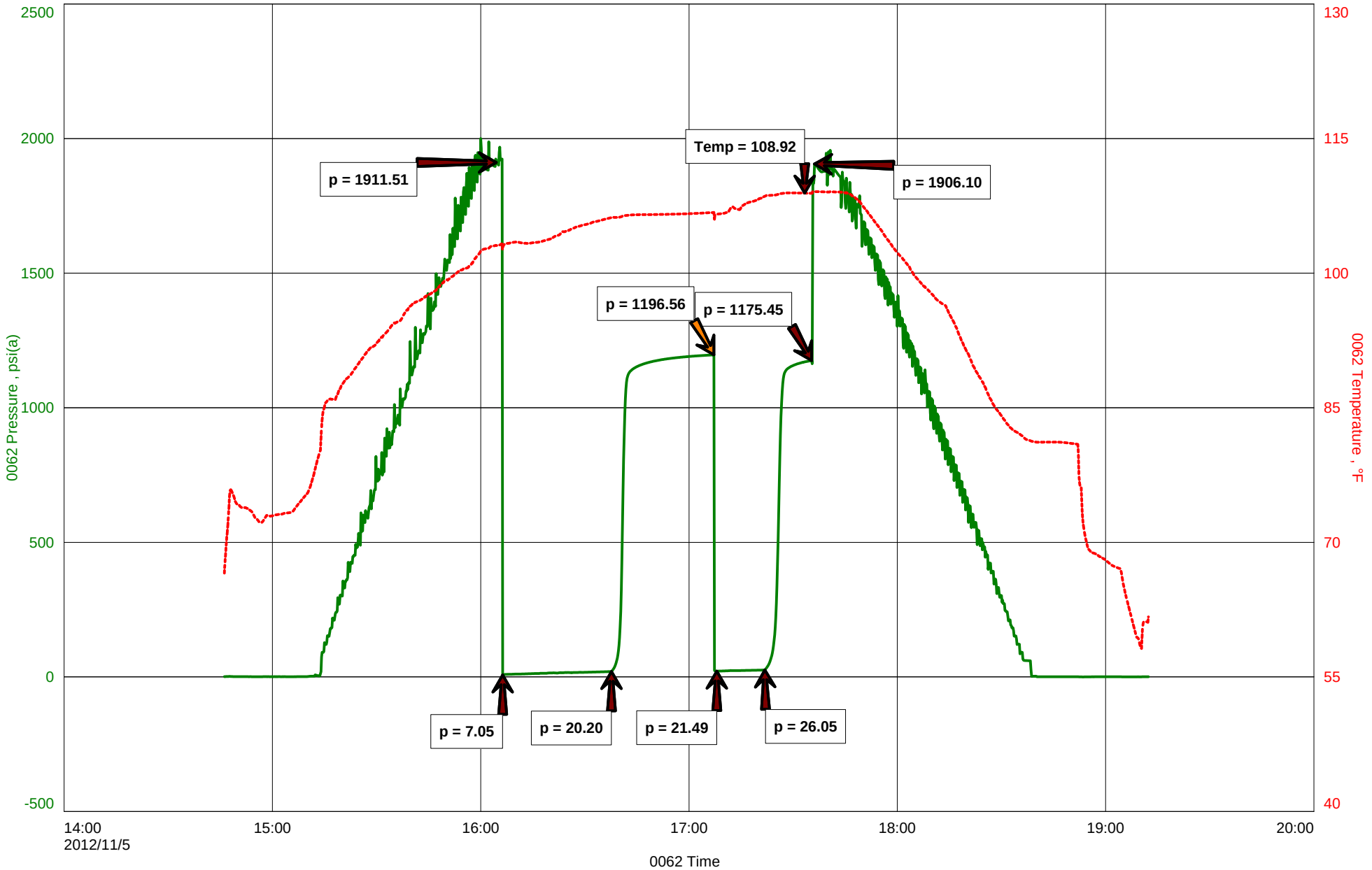
Final Closed In Period ..... Minutes 15 (G) 1175 P.S.I.

Final Hydrostatic Pressure ..... (H) 1906 P.S.I.

Grand Mesa Operating Co.
DST #3 "F" zone (4000'-4011')
Start Test Date: 2012/11/05
Final Test Date: 2012/11/05

Glennis #4-27
Formation: "F" zone (4000'-4011')
Pool: Wildcat
Job Number: F044

Glennis #4-27



Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co.	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co.	**Unique Well ID**	DST #4 "H" zone (4063'-4099')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F045
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottpm Hole	**Test Purpose**	Initial Test
Formation	"H" zone (4063'-4099')	**Gauge Name**	0062
Start Test Date	2012/11/06	**Start Test Time**	10:36:00
Final Test Date	2012/11/06	**Final Test Time**	18:42:00

Test Results

Recovered:	10'	Clean Oil	100% oil	.05 BBL	
	60'	GCHOCM	10% gas, 30% oil, 60% mud		.29 BBL
	----	Total Fluid Recovered:		.34 BBL	
	----	Tool Sample: HOCM	30% oil, 70% mud		
	----	Gravity: 39 (corrected)			
	----	180' GIP			

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: glennis4dst4

TIME ON: 10:36
TIME OFF: 18:42

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27

Contractor MDC #24 Charge to Grand Mesa Operating Co.

Elevation 2865' KB Formation "H" zone Effective Pay ---- Ft. Ticket No. F045

Date 11.6.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS

Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 4 Interval Tested from 4063 ft. to 4099 ft. Total Depth 4099 ft.

Packer Depth 4058 ft. Size 6 3/4 in. Packer depth ---- ft. Size 6 3/4 in.

Packer Depth 4063 ft. Size 6 3/4 in. Packer depth ---- ft. Size 6 3/4 in.

Depth of Selective Zone Set ----

Top Recorder Depth (Inside) 4042 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4096 ft. Recorder Number 11033 Cap. 5,150 P.S.I.

Below Straddle Recorder Depth ---- ft. Recorder Number ---- Cap. ---- P.S.I.

Mud Type Chemical Viscosity 53 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 8.0 cc. Weight Pipe Length ---- ft. I.D. 2 7/8 in

Chlorides 3000 P.P.M. Drill Pipe Length 3910 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 36 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Weak blow, increased to 4". No blowback.

2nd Open: Weak blow increased to 11". No blowback.

Recovered 10 ft. of Clean oil 100% oil

Recovered 60 ft. of GCHOCM 10% gas, 30% oil, 60% mud

Recovered ---- ft. of 180' GIP

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Total Fluid Recovered: 70'

Tool Sample: HOCM 30% oil, 70% mud

Gravity: 39 (corrected)

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 12:43 pm A.M. P.M. Time Started Off Bottom 4:28 pm A.M. P.M. Maximum Temperature 115 degF

Initial Hydrostatic Pressure ..... (A) 1950 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 9 P.S.I. to (C) 25 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1197 P.S.I.

Final Flow Period ..... Minutes 60 (E) 27 P.S.I. to (F) 49 P.S.I.

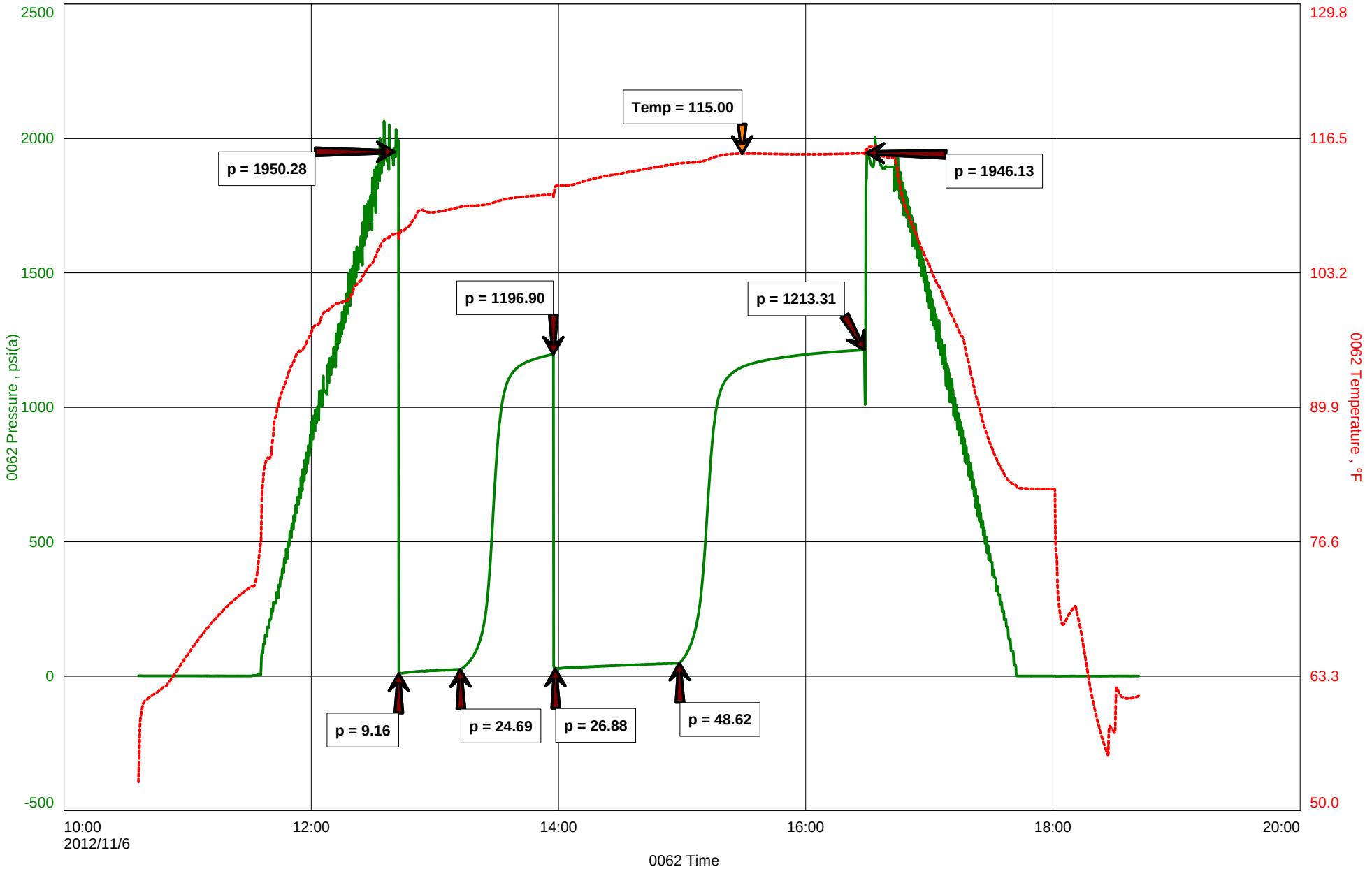
Final Closed In Period ..... Minutes 90 (G) 1213 P.S.I.

Final Hydrostatic Pressure ..... (H) 1946 P.S.I.

Grand Mesa Operating Co.
DST #4 "H" zone (4063'-4099')
Start Test Date: 2012/11/06
Final Test Date: 2012/11/06

Glennis #4-27
Formation: "H" zone (4063'-4099')
Pool: Wildcat
Job Number: F045

Glennis #4-27



Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co.	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co.	**Unique Well ID**	DST #5 "I" zone (4110'-4130')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F046
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottom Hole	**Test Purpose**	Initial Test
Formation	"I" zone (4110'-4130')	**Gauge Name**	0062
Start Test Date	2012/11/07	**Start Test Time**	04:39:00
Final Test Date	2012/11/07	**Final Test Time**	12:00:00

Test Results

Recovered:	5'	Clean oil	100% oil	.02 BBL
	60'	GC SWC OCM	16% gas, 22% oil, 2% wtr, 60% mud	.29 BBL
	-----	120' GIP		
	-----	Total fluid recovered: 65'		.31 BBL
	-----	Tool Sample: SWC G&OCM	10% gas, 25% oil, 2% wtr, 63% mud	
	-----	Gravity: 40 (corrected)		

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: glennis4dst5

TIME ON: 04:39
TIME OFF: 12:00

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27
Contractor MDC #24 Charge to Grand Mesa Operating Co.
Elevation 2865' KB Formation "I" zone Effective Pay ____ Ft. Ticket No. F046
Date 11.7.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS
Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 5 Interval Tested from 4110 ft. to 4130 ft. Total Depth 4130 ft.
Packer Depth 4105 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.
Packer Depth 4110 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.
Depth of Selective Zone Set ----------

Top Recorder Depth (Inside) 4089 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4127 ft. Recorder Number 11033 Cap. 5,150 P.S.I.
Below Straddle Recorder Depth ---------- ft. Recorder Number --------- Cap. --------- P.S.I.

Mud Type Chemical Viscosity 60 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.0 cc. Weight Pipe Length --------- ft. I.D. 2 7/8 in
Chlorides 3000 P.P.M. Drill Pipe Length 3937 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO Anchor Length 20 ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Weak blow, increased to 4". No blowback.
2nd Open: Weak blow increased to 6". No blowback.

Recovered 5 ft. of	Clean Oil	100% oil	.02 BBL
Recovered 60 ft. of	GC SWC OCM	16% gas, 22% oil, 2% wtr, 60% mud	.29 BBL
Recovered ---------- ft. of	120' GIP		
Recovered ____ ft. of			
Recovered ____ ft. of			
Recovered ____ ft. of			

Remarks: Total Fluid Recovered: 65' ===== .31 BBL
Tool Sample: SWC G&OCM : 10% gas, 25% oil, 2% wtr, 60% mud
Gravity: 40 (corrected)

Price Job
Other Charges
Insurance
Total

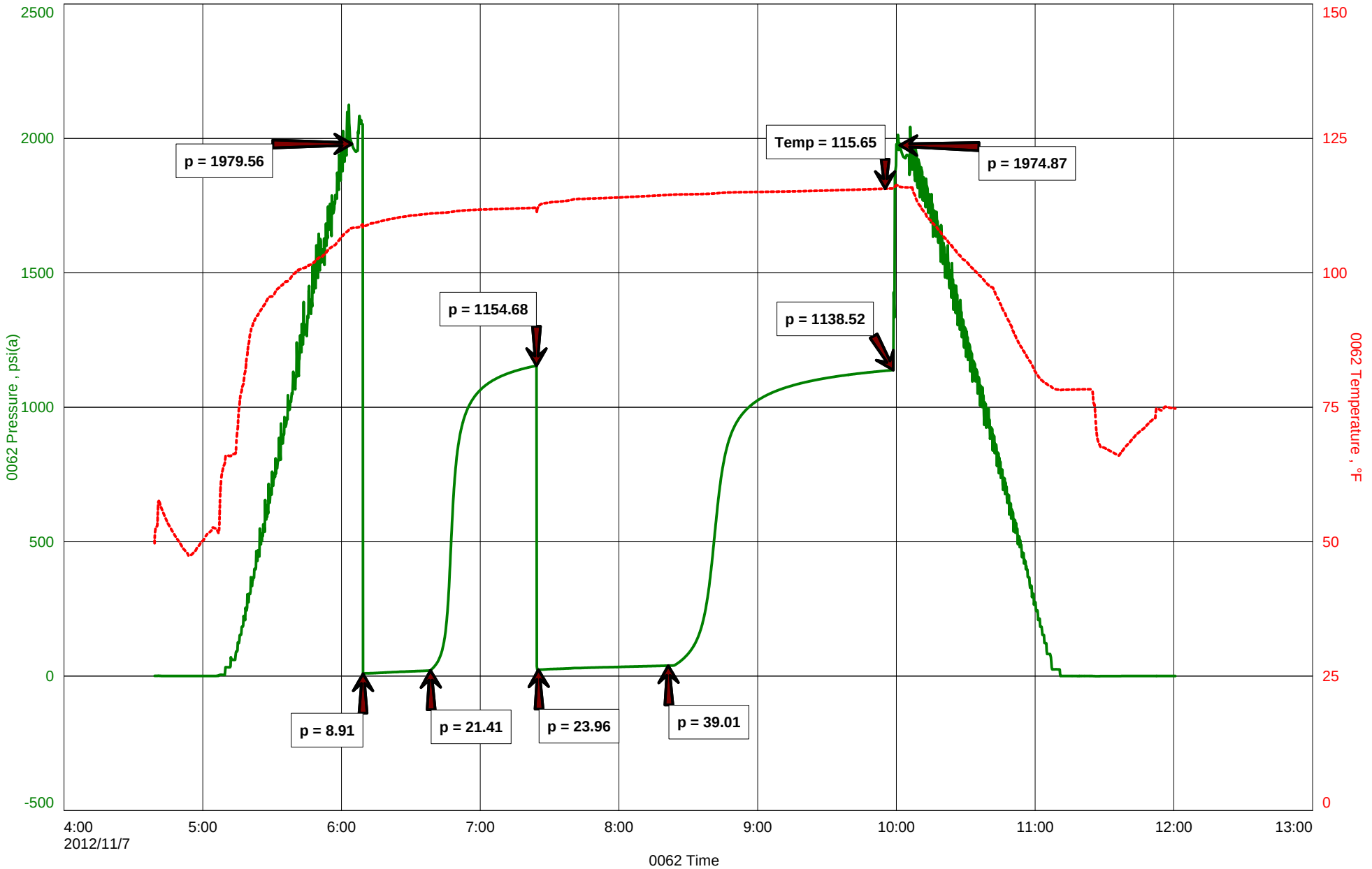
Time Set Packer(s) 6:08 am A.M. P.M. Time Started Off Bottom 9:58 am A.M. P.M. Maximum Temperature 116 deg F

Initial Hydrostatic Pressure ..... (A) 1980 P.S.I.
Initial Flow Period ..... Minutes 30 (B) 9 P.S.I. to (C) 21 P.S.I.
Initial Closed In Period ..... Minutes 45 (D) 1155 P.S.I.
Final Flow Period ..... Minutes 60 (E) 24 P.S.I. to (F) 39 P.S.I.
Final Closed In Period ..... Minutes 90 (G) 1139 P.S.I.
Final Hydrostatic Pressure ..... (H) 1975 P.S.I.

Grand Mesa Operating Co.
DST #5 "I" zone (4110'-4130')
Start Test Date: 2012/11/07
Final Test Date: 2012/11/07

Glennis #4-27
Formation: "I" zone (4110'-4130')
Pool: Wildcat
Job Number: F046

Glennis #4-27



Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co.	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co.	**Unique Well ID**	DST #6 "J" zone (4129'-4160')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F047
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottom Hole	**Test Purpose**	Initial Test
Formation	"J" zone (4129'-4130')	**Gauge Name**	0062
Start Test Date	2012/11/07	**Start Test Time**	21:35:00
Final Test Date	2012/11/08	**Final Test Time**	

Test Results

Recovered:	**30'**	**SOSM**	**1% oil, 99% mud**
	-----	**No GIP**	
	-----	**Tool Sample: SOSM**	**1% oil, 99% mud**

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: glennis4dst6

TIME ON: 21:35 11-7
TIME OFF: 04:13 11-8

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27
Contractor MDC #24 Charge to Grand Mesa Operating Co.
Elevation 2865' KB Formation "J" zone Effective Pay ____ Ft. Ticket No. F047
Date 11.8.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS
Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 6 Interval Tested from 4129 ft. to 4160 ft. Total Depth 4160 ft.
Packer Depth 4124 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.
Packer Depth 4129 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.
Depth of Selective Zone Set ----------

Top Recorder Depth (Inside) 4108 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4157 ft. Recorder Number 11033 Cap. 5,150 P.S.I.
Below Straddle Recorder Depth ---------- ft. Recorder Number --------- Cap. --------- P.S.I.

Mud Type Chemical Viscosity 51 Drill Collar Length 120 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 7.2 cc. Weight Pipe Length --------- ft. I.D. 2 7/8 in
Chlorides 3200 P.P.M. Drill Pipe Length 4076 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO Anchor Length 31 ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Weak blow, increased to 1". No blowback.
2nd Open: Surface blow, dead after 30 minutes.

Recovered 30 ft. of SOSM 1% oil, 99% mud
Recovered ____ ft. of
Recovered ____ ft. of
Recovered ____ ft. of
Recovered ____ ft. of
Recovered ____ ft. of
Recovered ____ ft. of
Remarks: No GIP
Tool Sample: SOSM 1% oil, 99% mud

Price Job	
Other Charges	
Insurance	
Total	

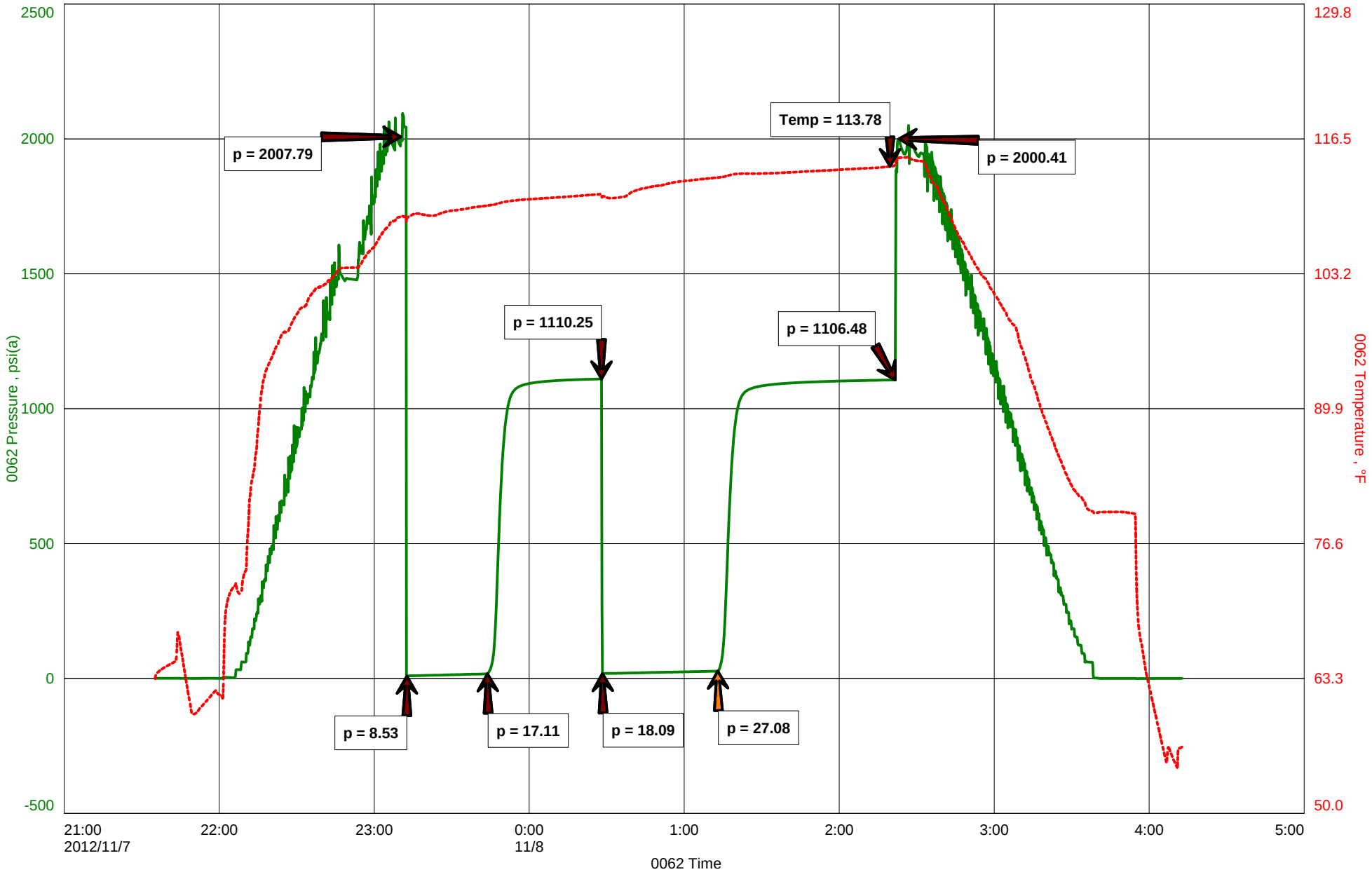
Time Set Packer(s) 11:15 pm A.M. P.M. Time Started Off Bottom 2:15 am A.M. P.M. Maximum Temperature 114 deg F

Initial Hydrostatic Pressure ..... (A) 2007 P.S.I.
Initial Flow Period ..... Minutes 30 (B) 9 P.S.I. to (C) 17 P.S.I.
Initial Closed In Period ..... Minutes 45 (D) 1110 P.S.I.
Final Flow Period ..... Minutes 45 (E) 18 P.S.I. to (F) 27 P.S.I.
Final Closed In Period ..... Minutes 60 (G) 1106 P.S.I.
Final Hydrostatic Pressure ..... (H) 2000 P.S.I.

Grand Mesa Operating Co.
DST #6 "J" zone (4129'-4160')
Start Test Date: 2012/11/07
Final Test Date: 2012/11/08

Glennis #4-27
Formation: "J" zone (4129'-4130')
Pool: Wildcat
Job Number: F047

Glennis #4-27



Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co.	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co.	**Unique Well ID**	DST #7 "K" zone (4155'-4175')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F048
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottom Hole	**Test Purpose**	Initial Test
Formation	"K" zone(4155'-4175')	**Gauge Name**	0062
Start Test Date	2012/11/08	**Start Test Time**	10:47:00
Final Test Date	2012/11/08	**Final Test Time**	20:33:00

Test Results

Recovered:	100'	Clean Oil	100% oil	1.42 BBL
	560'	REVERSED OUT ****ESTIMATED 80% oil, 20% wtr *****		7.95 BBL
	120'	OSMCW	2% oil, 83% wtr, 15% mud	.59 BBL
	-----	3000' GIP		
	-----	Total fluid recovered: 780'		9.96 BBL
	-----	Tool Sample: SWCO	97% oil, 3% wtr	
	-----	Gravity: 38.5 corrected		
	-----	Chlorides: 45,000 ppm		
	-----	RW: .18 @ 50 deg F		
	-----	PH: 8.0		

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: glennis4dst7

TIME ON: 10:47
TIME OFF: 20:33

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27

Contractor MDC #24 Charge to Grand Mesa Operating Co.

Elevation 2865' KB Formation "K" zone Effective Pay ____ Ft. Ticket No. F048

Date 11.8.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS

Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 7 Interval Tested from 4155 ft. to 4175 ft. Total Depth 4175 ft.

Packer Depth 4150 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Packer Depth 4155 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Depth of Selective Zone Set ----------

Top Recorder Depth (Inside) 4134 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4172 ft. Recorder Number 11033 Cap. 5,150 P.S.I.

Below Straddle Recorder Depth ---------- ft. Recorder Number --------- Cap. --------- P.S.I.

Mud Type Chemical Viscosity 62 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 7.2 cc. Weight Pipe Length --------- ft. I.D. 2 7/8 in

Chlorides 3200 P.P.M. Drill Pipe Length 4002 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out ***YES*** Anchor Length 20 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Strong blow, increased to BOB in 4 minutes. Blowback @ BOB in 27 minutes.

2nd Open: Strong blow, increased to BOB in 5 minutes. Blowback @ BOB in 10 minutes.

Recovered 100 ft. of	Clean Oil	100% oil	1.42 BBL
Recovered 560 ft. of	REVERSED OUT ***ESTIMATED 80% oil, 20% wtr ***		7.95 BBL
Recovered 120 ft. of	OSMCW	2% oil, 83% wtr, 15% mud	.59 BBL
Recovered -------- ft. of	3000' GIP		
Recovered ____ ft. of			
Recovered ____ ft. of			

Remarks: Total Fluid Recovered: 780' = 9.96 BBL

Tool Sample: SWCO 97% oil, 3% wtr

Gravity: 38.5 corrected // Chlorides: 45,000 ppm // RW: .18 @ 50 deg F // PH: 8.0

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 12:49 pm A.M. P.M. Time Started Off Bottom 4:19 pm A.M. P.M. Maximum Temperature 127 deg F

Initial Hydrostatic Pressure ..... (A) 2022 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 24 P.S.I. to (C) 166 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1118 P.S.I.

Final Flow Period ..... Minutes 45 (E) 171 P.S.I. to (F) 314 P.S.I.

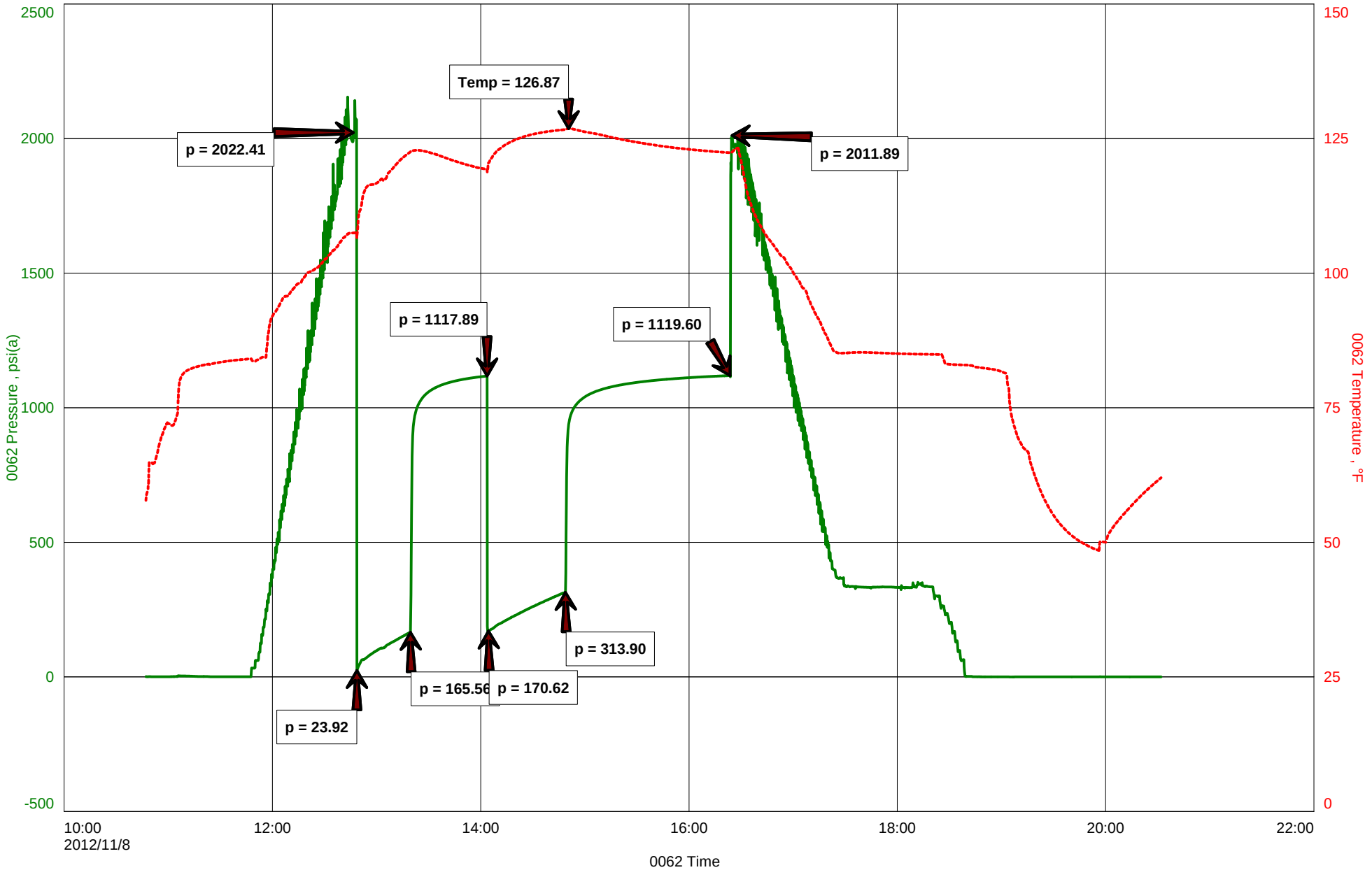
Final Closed In Period ..... Minutes 90 (G) 1120 P.S.I.

Final Hydrostatic Pressure ..... (H) 2012 P.S.I.

Grand Mesa Operating Co.
DST #7 "K" zone (4155'-4175')
Start Test Date: 2012/11/08
Final Test Date: 2012/11/08

Glennis #4-27
Formation: "K" zone(4155'-4175')
Pool: Wildcat
Job Number: F048

Glennis #4-27



Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co.	**Unique Well ID**	DST #8 Johnson (4461'-4502')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F039
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottom Hole	**Test Purpose**	Initial Test
Formation	Johnson (4461'-4502')	**Gauge Name**	0062
Start Test Date	2012/11/10	**Start Test Time**	04:36:00
Final Test Date	2012/11/10	**Final Test Time**	17:45:00

Test Results

Recovered:	**2770'**	**Reversed out to truck, Gassy Clean Oil**	**39.33 BBL**
	120'	**GCMO 10% gas, 45% oil, 45% mud**	**.59 BBL**
	-------	**GTS, TSTM**	
	-------	**Total Fluid Recovered: 2890'**	**39.92 BBL**
	-------	**Tool Sample: MCO 95% oil, 15% mud**	
	-------	**Gravity: 31 corrected**	

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: glennis4dst8

TIME ON: 04:36
TIME OFF: 17:45

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27

Contractor MDC #24 Charge to Grand Mesa Operating Co.

Elevation 2865' KB Formation Johnson Effective Pay ____ Ft. Ticket No. F049

Date 11.10.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS

Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 8 Interval Tested from 4461 ft. to 4502 ft. Total Depth 4502 ft.

Packer Depth 4456 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Packer Depth 4461 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Depth of Selective Zone Set ----------

Top Recorder Depth (Inside) 4440 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4499 ft. Recorder Number 11033 Cap. 5,150 P.S.I.

Below Straddle Recorder Depth ---------- ft. Recorder Number --------- Cap. --------- P.S.I.

Mud Type Chemical Viscosity 52 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length --------- ft. I.D. 2 7/8 in

Chlorides 3000 P.P.M. Drill Pipe Length 4308 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number #5 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out ***YES*** Anchor Length 41 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' dp in anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Strong blow, BOB 1 minute. Blowback @ BOB in 4 minutes. GTS TSTM during shut-in.

2nd Open: Strong blow, BOB 1.5 minutes. Blowback @ BOB in 6 minutes.

Recovered 2770 ft. of Reversed out to truck, Gassy Clean Oil 39.33 BBL

Recovered 120 ft. of GCMO 10% gas, 45% oil, 45% mud .59 BBL

Recovered ---------- ft. of Gas To Surface, TSTM

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks: Total Fluid Recovered: 2890' === 39.92 BBL

Tool Sample: MCO, 85% oil, 15% mud

Gravity: 31 corrected

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 6:30 am A.M. P.M. Time Started Off Bottom 10:00 am A.M. P.M. Maximum Temperature 135 deg F

Initial Hydrostatic Pressure ..... (A) 2232 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 311 P.S.I. to (C) 825 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1111 P.S.I.

Final Flow Period ..... Minutes 45 (E) 851 P.S.I. to (F) 1064 P.S.I.

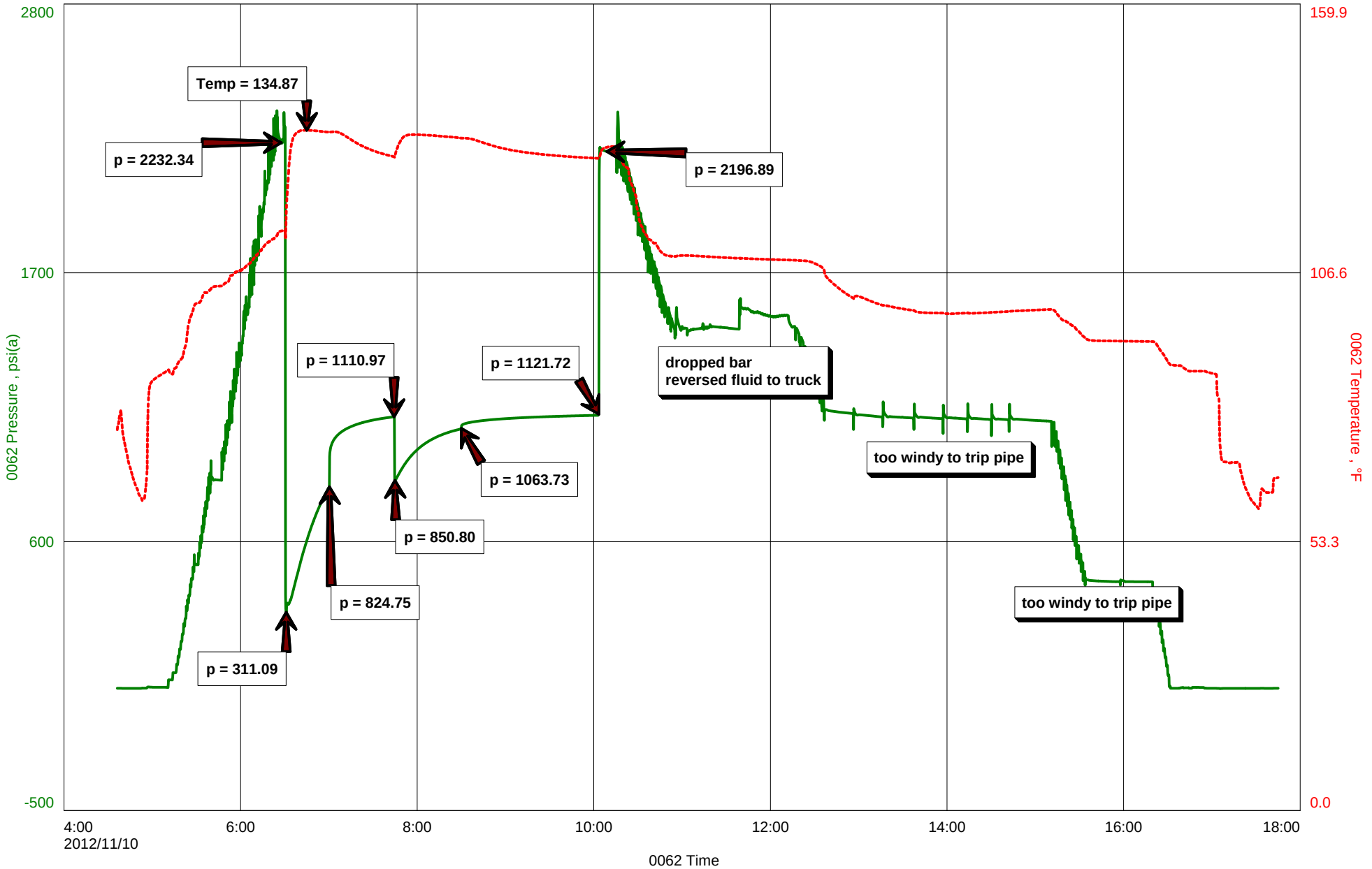
Final Closed In Period ..... Minutes 90 (G) 1122 P.S.I.

Final Hydrostatic Pressure ..... (H) 2197 P.S.I.

Grand Mesa Operating Co
DST #8 Johnson (4461'-4502')
Start Test Date: 2012/11/10
Final Test Date: 2012/11/10

Glennis #4-27
Formation: Johnson (4461'-4502')
Pool: Wildcat
Job Number: F039

Glennis #4-27



Diamond Testing General Report

JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Grand Mesa Operating Co.	**Well Name**	Glennis #4-27
Well Operator	Grand Mesa Operating Co.	**Unique Well ID**	DST #9 Morrow Sand (4500'-4543')
Contact	Steve Stribling	**Surface Location**	Sec 27-13s-31w-Gove Co.-KS
Site Contact	Kent Matson	**Test Unit**	#5
Field	Wildcat	**Pool**	Wildcat
Well Type	Vertical	**Job Number**	F040
Prepared By	Jake Fahrenbruch	**Qualified By**	Kent Matson

Test Information

Test Type	Conventional Bottom Hole	**Test Purpose**	Initial Test
Formation	Morrow Sand (4500'-4543')	**Gauge Name**	0062
Start Test Date	2012/11/11	**Start Test Time**	01:05:00
Final Test Date	2012/11/11	**Final Test Time**	11:28:00

Test Results

Recovered:	200'	Clean Oil	100% oil	2.84 BBL
	90'	GCHMCO	15% gas, 55% oil, 30% mud	1.28 BBL
	120'	HGCMO	30% gas, 40% oil, 30% mud	.59 BBL
	-------	620' GIP		
	-------	Total Fluid Recovered: 410'		4.71 BBL
	-------	Tool Sample: MCO	85% oil, 15% mud	
	-------	Gravity: 30 (corrected)		

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: glennis4dst9

TIME ON: 01:05
TIME OFF: 11:28

Company Grand Mesa Operating Co. Lease & Well No. Glennis #4-27

Contractor MDC #24 Charge to Grand Mesa Operating Co.

Elevation 2865' KB Formation Morrow Sand Effective Pay ____ Ft. Ticket No. F040

Date 11.11.12 Sec. 27 Twp. 13 S Range 31 W County Gove State KANSAS

Test Approved By Kent Matson Diamond Representative Jake Fahrenbruch

Formation Test No. 9 Interval Tested from 4500 ft. to 4543 ft. Total Depth 4543 ft.

Packer Depth 4495 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Packer Depth 4500 ft. Size 6 3/4 in. Packer depth ---------- ft. Size 6 3/4 in.

Depth of Selective Zone Set ----------

Top Recorder Depth (Inside) 4501 ft. Recorder Number 0062 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4540 ft. Recorder Number 11033 Cap. 5,150 P.S.I.

Below Straddle Recorder Depth ---------- ft. Recorder Number --------- Cap. --------- P.S.I.

Mud Type Chemical Viscosity 52 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 8.8 cc. Weight Pipe Length --------- ft. I.D. 2 7/8 in

Chlorides 3000 P.P.M. Drill Pipe Length 4352 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number #5 Test Tool Length 28 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 43 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 31' dp in anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: Fairly strong blow, increased to BOB in 13 minutes. Blowback increased to 3.5".

2nd Open: Strong blow, increased to BOB in 6 minutes. Blowback increased to 7.5".

Recovered 200 ft. of	Clean Oil	100% oil	2.84 bbl
Recovered 90 ft. of	GCHMCO	15% gas, 55% oil, 30% mud	1.28 bbl
Recovered 120 ft. of	HGCMO	30% gas, 40% oil, 30% mud	.59 bbl
Recovered -------- ft. of	620' GIP		
Recovered ____ ft. of			
Recovered ____ ft. of			

Remarks: Total Fluid Recovered: 410' == 4.71 BBL

Tool Sample: MCO 85% oil, 15% mud

Gravity: 30 (corrected)

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 3:39 am A.M. P.M. Time Started Off Bottom 7:24 am A.M. P.M. Maximum Temperature 128 deg F

Initial Hydrostatic Pressure ..... (A) 2230 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 37 P.S.I. to (C) 115 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1027 P.S.I.

Final Flow Period ..... Minutes 60 (E) 117 P.S.I. to (F) 177 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 995 P.S.I.

Final Hydrostatic Pressure ..... (H) 2227 P.S.I.

Grand Mesa Operating Co.
DST #9 Morrow Sand (4500'-4543')
Start Test Date: 2012/11/11
Final Test Date: 2012/11/11

Glennis #4-27
Formation: Morrow Sand (4500'-4543')
Pool: Wildcat
Job Number: F040

Glennis #4-27