

Confidentiality Requested:

Yes No

Requested: KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1108937

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R
Address 2:	Feet from
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
□ Oil □ WSW □ SHOW   □ 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:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
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 #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)  Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:
☐ ENHR         Permit #:           ☐ GSW         Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	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:
Confidential Release Date:
Wireline Log Received
Geologist Report Received
UIC Distribution
ALT I II III Approved by: Date:

Page Two



Operator Name: Lease Name: \_ \_ Well #: \_ County: \_ 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** No Loa Formation (Top), Depth and Datum Sample | Yes (Attach Additional Sheets) Name Top Datum No Samples Sent to Geological Survey Yes ☐ No Yes
 Yes
 ■
 Yes
 ■
 Yes
 ■
 Nes
 Nes Cores Taken Electric Log Run \_\_\_ Yes No List All E. Logs Run: CASING RECORD New Used Report all strings set-conductor, surface, intermediate, production, etc. Size Hole Size Casing Weight Setting Type of # Sacks Type and Percent Purpose of String Drilled Set (In O.D.) Lbs. / Ft. Depth Cement Used Additives ADDITIONAL CEMENTING / SQUEEZE RECORD Purpose: Depth Type of Cement # Sacks Used Type and Percent Additives Top Bottom Perforate **Protect Casing** Plug Back TD Plug Off Zone Did you perform a hydraulic fracturing treatment on this well? Yes No (If No, skip questions 2 and 3) No Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes (If No, skip question 3) Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? (If No, fill out Page Three of the ACO-1) Yes PERFORATION RECORD - Bridge Plugs Set/Type Acid, Fracture, Shot, Cement Squeeze Record Shots Per Foot Specify Footage of Each Interval Perforated Depth (Amount and Kind of Material Used) TUBING RECORD: Size: Set At: Packer At: Liner Run: Yes No Date of First, Resumed Production, SWD or ENHR. Producing Method: Flowing Pumping Gas Lift Other (Explain) **Estimated Production** Oil Bbls Gas Mcf Water Bbls. Gas-Oil Ratio Gravity Per 24 Hours METHOD OF COMPLETION: DISPOSITION OF GAS: PRODUCTION INTERVAL: Open Hole Perf. Dually Comp. Commingled Vented Sold Used on Lease (Submit ACO-5) (Submit ACO-4) (If vented, Submit ACO-18.) Other (Specify)

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	H-W-Z 1-14
Doc ID	1108937

### All Electric Logs Run

CPDCN Micro Log
Al Shallow Focused Elect. Log
Comp. Sonic w/Integrated Transit Time
Micro. Log
Dual Rec. Cement Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	H-W-Z 1-14
Doc ID	1108937

### Tops

Name	Тор	Datum
Stone Corral	2392	+538
Bs/Stone Corral	2419	+511
Heebner	3948	-1018
Lansing	3991	-1061
Muncie Creek	4140	-1210
Stark	4225	-1295
Marmaton	4318	-1388
Excello	4472	-1542
Mississippian	4586	-1656
LTD	4700	

## DIAMOND **TESTING**

#### **Pressure Survey Report**

#### **General Information**

Company Name **Well Name** Unique Well ID Surface Location Field Well Type

**GRAND MESA OPERATING COMPANY Job Number** H-W-Z #1-14 Representative DST#1 4140-4176 "H" ZONE Well Operator

SEC.14-13S-31W GOVE CO.KS. Report Date **WILDCAT** Prepared By Vertical Qualified By

**Test Unit** 

M430 **MIKE COCHRAN** 

**GRAND MESA OPERATING COMPANY** 2012/11/19 **MIKE COCHRAN** JOHN GOLDSMITH

#### **Test Information**

**Test Type Formation Test Purpose (AEUB)** 

CONVENTIONAL DST#1 4140-4176 "H" ZONE **Initial Test** 

**Start Test Date Final Test Date**  2012/11/19 Start Test Time 2012/11/19 Final Test Time **Well Fluid Type** 

10:50:00 16:30:00 01 Oil

**Gauge Name Gauge Serial Number**  30037

#### **Test Results**

Remarks RECOVERED:

1' DM 100% DM 1' TOTAL FLUID

TOOL SAMPLE: 100% DM

**GRAND MESA OPERATING COMPANY** 

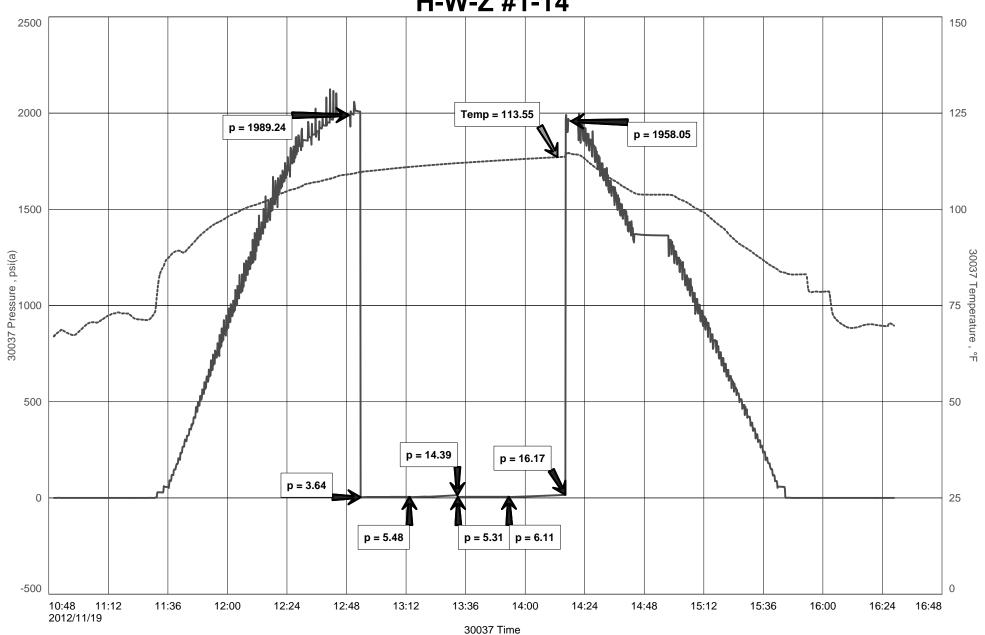
DST#1 4140-4176 "H" ZONE Start Test Date: 2012/11/19

Final Test Date: 2012/11/19



H-W-Z #1-14 Formation: DST#1 4140-4176 "H" ZONE

Pool: WILDCAT Job Number: M430





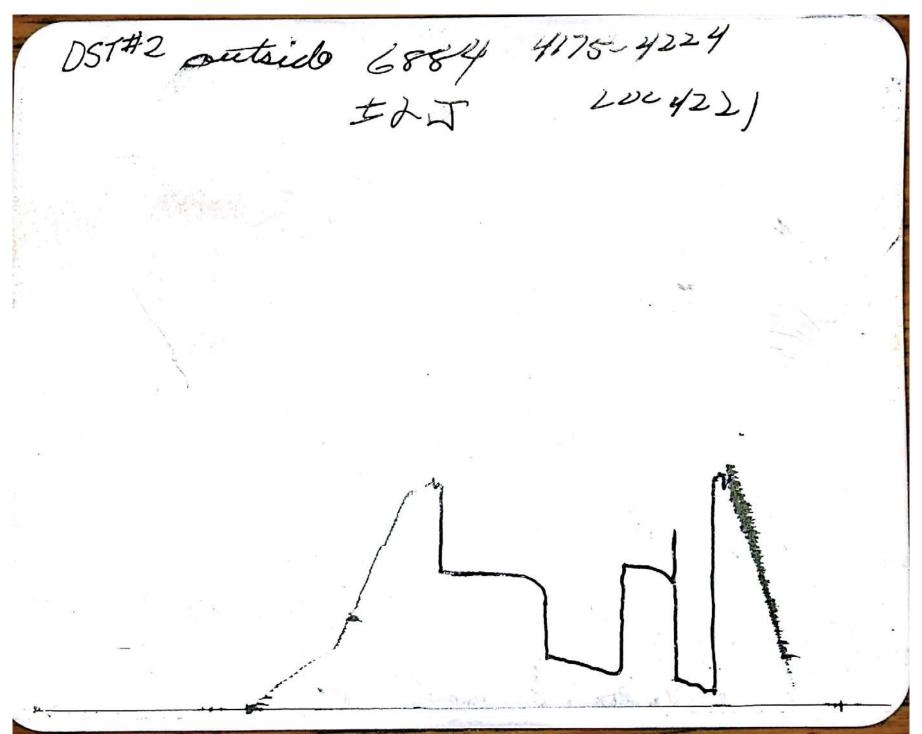
# P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313

## **DRILL-STEM TEST TICKET**

IME ON:	
IME OFF:	

Company		Lease & Well No				
Contractor						
Elevation Formation		Effective Pay		Ft. Ticket N	lo	
Date Sec Twp	S R	ange	_W County		_StateK	ANSAS
Test Approved By		Diamond Representative	e			
Formation Test No Interval Te	sted from	ft. to	ft. Total D	epth		ft.
Packer Depthft. Size	6 3/4 in.	Packer depth	f	t. Size	6 3/4	in.
Packer Depthft. Size	6 3/4 in.	Packer depth	f	t. Size	6 3/4	in.
Depth of Selective Zone Set						
Top Recorder Depth (Inside)	ft.	Recorder Number	C	ар	P	.S.I.
Bottom Recorder Depth (Outside)	ft.	Recorder Number	C	ар	F	P.S.I.
Below Straddle Recorder Depth	ft.	Recorder Number	C	ар	P	P.S.I.
Mud Type Viscosity		Drill Collar Length	ft.	I.D	2 1/4	in
Weight Water Loss	сс	. Weight Pipe Length_	ft.	I.D	2 7/8	i
Chlorides	P.P.M.	Drill Pipe Length	ft.	I.D	3 1/2	ir
Jars: MakeSTERLINGSerial Number		Test Tool Length	ft.	Tool Size	3 1/2-IF	<u> </u>
Did Well Flow?Reversed Ou	ıt	Anchor Length	ft.	Size	4 1/2-F	Hi
Main Hole Size 7 7/8 Tool Joint Siz	re4_1/2in.	Surface Choke Size_	in.	Bottom C	hoke Size_	5/8_i
Blow: 1st Open:						
2nd Open:						1
Recoveredft. of						
Recoveredft. of						
Recoveredft. of						
Recoveredft. of						
Recoveredft. of			Pri	ce Job		
Recoveredft. of			Ot	her Charges	3	
Remarks:			Ins	surance		
				tal		
A.M. Time Set Packer(s)P.M.	Time Started Off Bo	ottom	A.M. P.M. Maximu	ım Tempera	ature	
Initial Hydrostatic Pressure		(A)	P.S.I.			
Initial Flow PeriodMin	utes	(B)	P.S.I. to (C	)	P.S.	.1.
Initial Closed In Period Mir	utes	(D)	P.S.I.			
Final Flow PeriodMin	utes	(E)	P.S.I. to (F)		P.S.I	l.
Final Closed In PeriodMin	utes	(G)	P.S.I.			
Final Hydrostatic Pressure		(H)	P.S.I.			

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



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## DIAMOND TESTING

#### **Pressure Survey Report**

**GRAND MESA OPERATING COMPANY** 

M431

**MIKE COCHRAN** 

#### **General Information**

Company Name Well Name Unique Well ID Surface Location Field GRAND MESA OPERATING COMPANY Job Number H-W-Z #1-14 Representative DST#2 4175-4224 I&J Well Operator

SEC.14-13S-31W GOVE CO.KS. Report Date
WILDCAT Prepared By
Vertical Qualified By

Report Date 2012/11/20
Prepared By MIKE COCHRAN
Qualified By JOHN GOLDSMITH
Test Unit NO. 1

#### **Test Information**

Well Type

Test Type Formation Test Purpose (AEUB) CONVENTIONAL DST#2 4175-4224 I&J Initial Test

 Start Test Date
 2012/11/20 Start Test Time
 03:15:00

 Final Test Date
 2012/11/20 Final Test Time
 13:00:00

 Well Fluid Type
 01 Oil

#### **Test Results**

Remarks RECOVERED:

2188' GIP 500' CO 100% OIL

**250'** GWMCO 20% GAS, 53% OIL, 22% WTR, 5% MUD 243' GOCMW 12% GAS, 15% OIL, 64% WTR, 9% MUD

993' TOTAL FLUID

CHLOR: 32,000 PPM

PH:7.0

RW: .31 @ 80 DEG

GRAVITY: 34.2 @ 60

TOOL SAMPLE: 17% GAS, 25% OIL, 39% WTR, 19% MUD



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

## **DRILL-STEM TEST TICKET**

IME ON:	
IME OFF:	

Company		Lease & Well No				
Contractor						
Elevation Formation		Effective Pay		Ft. Ticket N	lo	
Date Sec Twp	S R	ange	_W County		_StateK	ANSAS
Test Approved By		Diamond Representative	e			
Formation Test No Interval Te	sted from	ft. to	ft. Total D	epth		ft.
Packer Depthft. Size	6 3/4 in.	Packer depth	f	t. Size	6 3/4	in.
Packer Depthft. Size	6 3/4 in.	Packer depth	f	t. Size	6 3/4	in.
Depth of Selective Zone Set						
Top Recorder Depth (Inside)	ft.	Recorder Number	C	ар	P	.S.I.
Bottom Recorder Depth (Outside)	ft.	Recorder Number	C	ар	F	P.S.I.
Below Straddle Recorder Depth	ft.	Recorder Number	C	ар	P	P.S.I.
Mud Type Viscosity		Drill Collar Length	ft.	I.D	2 1/4	in
Weight Water Loss	сс	. Weight Pipe Length_	ft.	I.D	2 7/8	i
Chlorides	P.P.M.	Drill Pipe Length	ft.	I.D	3 1/2	ir
Jars: MakeSTERLINGSerial Number		Test Tool Length	ft.	Tool Size	3 1/2-IF	<u> </u>
Did Well Flow?Reversed Ou	ıt	Anchor Length	ft.	Size	4 1/2-F	Hi
Main Hole Size 7 7/8 Tool Joint Siz	re4_1/2in.	Surface Choke Size_	in.	Bottom C	hoke Size_	5/8_i
Blow: 1st Open:						
2nd Open:						1
Recoveredft. of						
Recoveredft. of						
Recoveredft. of						
Recoveredft. of						
Recoveredft. of			Pri	ce Job		
Recoveredft. of			Ot	her Charges	3	
Remarks:			Ins	surance		
				tal		
A.M. Time Set Packer(s)P.M.	Time Started Off Bo	ottom	A.M. P.M. Maximu	ım Tempera	ature	
Initial Hydrostatic Pressure		(A)	P.S.I.			
Initial Flow Period Min	utes	(B)	P.S.I. to (C	)	P.S.	.1.
Initial Closed In Period Mir	utes	(D)	P.S.I.			
Final Flow PeriodMin	utes	(E)	P.S.I. to (F)		P.S.I	l.
Final Closed In PeriodMin	utes	(G)	P.S.I.			
Final Hydrostatic Pressure		(H)	P.S.I.			

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#### **John Goldsmith Wellsite Service**

Cell and Home Phone: 316-640-0236

427 Roosevelt St. Cheney, KS 67025

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

Well Name: #1-14 H-W-Z

Location: 2488' FNL, 2471' FWL, SECTION 14-13S-31W

License Number: API: 15-063-22033 Region: Gove County Spud Date: 11/14/2012 Drilling Completed: 11/22/2012

Surface Coordinates: LAT 38.6282967 LONG -100.8979283

Bottom Hole Coordinates: Vertical hole

Ground Elevation (ft): 2925' K.B. Elevation (ft): 2930' Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4700'

Formation: Mississippian at RTD

Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

#### OPERATOR

Company: Grand Mesa Operating Co. 1700 N. Waterfront Parkway Address:

Bldg. 600

Wichita, KS 67206-5514

#### **GEOLOGIST**

Name: John Goldsmith

Company: John Goldsmith Wellsite Service

Address: 427 Roosevelt St.

Cheney, KS 67025 316-640-0236

#### COMMENTS

Contractor: Murfin Rig #24

Pusher: Tony Martin

Surface Casing: 5 joints of 8 5/8" set at 222'
Production Casing: 5.5" Production Casing was Installed.

Mud by: MudCo

DST's by: Diamond Testing Logs by: Superior Well Services (DIL, CN-CD, ML, CS) RTD=4700'

LTD=4700'

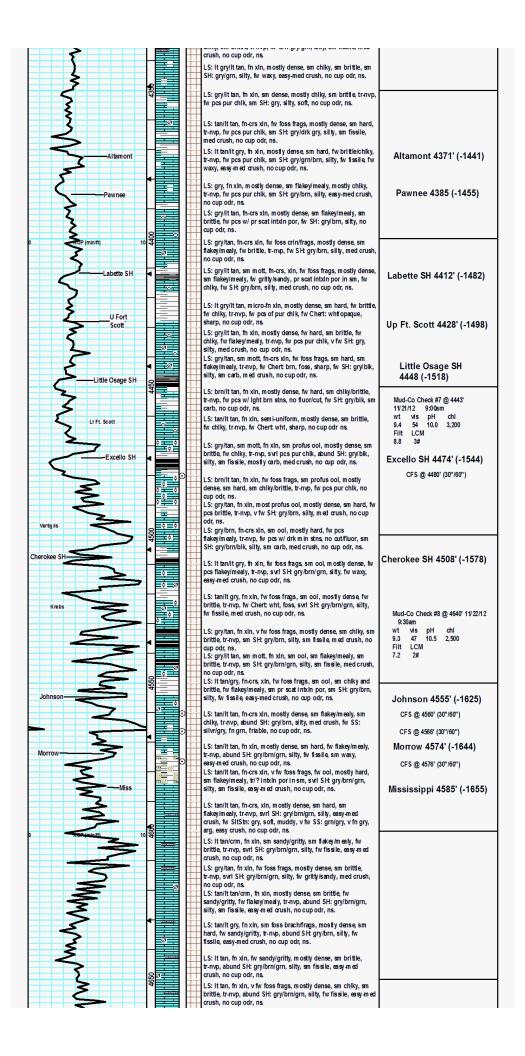
FORMATION TOPS	SAMPL	E TOPS	LOG TOPS		
FORMATION	Depth	Datum	Depth	Datum	
Queen Hill	3886'	-956	3887'	-957	
Heebner Shale	3947'	-1017	3948'	-1018	
Toronto	3973'	-1043	3974'	-1044	
Lansing	3994'	-1064	3993'	-1063	
Muncie Creek Shale	4144'	-1214	4142'	-1212	
Stark Shale	4224'	-1294	4224'	-1294	
Hushpuckney Shale	4262'	-1332	4262'	-1332	
Base of KC	4292'	-1362	4292'	-1362	
Marmaton	4320'	-1390	4318'	-1388	
Upper Fort Scott	4428'	-1498	4428'	-1498	
Little Osage Shale	4448'	-1518	4448'	-1518	
Excello Shale	4474'	-1544	4474'	-1544	
Johnson Zone	4555'	-1625	4555'	-1625	
Могтом	4574'	-1644	4574'	-1644	
Mississippian	4585'	-1655	4585'	-1655	
RTD	4700'	-1770			
LTD			4700'	-1770	

DST#1 "H Zone" 11-19-2012 4140'-4176' 20-20-20-20 1st Open = Few Bubbles on Tool Open (No Blow Back) 2nd Open = A Few Bubbles on Tool Open (No Blow Back) IFP = 4-5# ISIP = 14# FFP = 5-6# FSIP = 16# HYDP = 1989-1958# 1' Total Fluid 1' DM

DST #2 "I&J Zones" 11-20-2012 4175'-4224' 30-45-60-90 1st Open = Built to BOB in 4.5" (Blow Back Built to 4.5") 2nd Open = Built to BOB in 10" (Blow Back Built to 7") IFP = 143-254# ISIP = 1284# FFP = 286-452# FSIP = 1229#

<b>3</b>	4		
2	3700		
<b>\( \)</b>			
}			
Shawnee			Shawnee 3730' (-800)
حر		- - -	
<b>₹</b>	o l		
٤	375		
2			
7			
3			
Deer Creek		Drilling Samples began @ 3800' on 11/17/2012	Deer Creek 3784' (-854)
5		LS: tan/lt tan, fn xin, sm foss, brach/frags, fw ool, sm brittle,	200. 0.00K 07 07 (-007)
3		tr-nvp, fw pcs Chert wht/tan, foss sharp, no cup odr, ns.	
ROP (min/ft)	10 88 39	LS: gry/tan, fn xin, foss brach/frags, sm brittle, tr-nvp, sm pcs pur chlk, v fw SH: gry/brn, silty, med crush, no cup odr, ns.	
		LS: gry/tan, fn xin, foss brach/crin/frags, sm brittle, sm chiky, tr-nvp, sm pcs pur chik, v fw SH: gry/brn, silty, sm fissile, m ed	
3		crush, no cup odr, ns.  LS: gry/tan, fw foss frags, sm brittle, sm chlky, tr-nvp, fw pcs	
}		pur chlk, fw SH: gry/brn, silty, easy-m ed crush, no cup odr, ns.	L OH 00041 / 004)
Larsh	24	LS: gry/tan, fn xin, sm foss frags, sm chlky/brittle, tr-nvp, fw pcs w/ drk min stns, no cut/fluor, fw pcs pur chlk, fw SH gry/brn, silty, sm soft, no cup odr, ns.	Larsh SH 3831' (-901)
		LS: gry/tan, fn xin, sm foss frags, sm chiky, fw dense/hard, tr-nvp, fw pcs pur chik, svri SH: gry/brn, silty, easy m ed crush,	
\$		no cup odr, ns.  LS: It gry/tan, fn xln, sm foss crin/brach/frags, sm dense/hard,	
5		fw flakey/mealy, fw chlky, tr-nvp, fw pcs pur chlk, tr-nvp, no cup odr, ns.	
	2	LS: gry/tan, fn xin, sm foss frags, sm dense, fw flakey/mealy, sm chlky, tr-nvp, fw SH: gry/brn, silty, med crush, no cup odr, ns.	
3		LS: gry/lt tan, fn xin, fw foss frags, sm dense, fw flakey/mealy, sm chlky, t-nvp, fw SH: gry/brn, silty, sm fissile, med crush,	
=		no cup odr, ns.  LS: gry/lt tan, fn xln, fw foss frags, sm dense, sm chiky, tr-nvp,	
Queen Hill	SH	fw pcs pur chik, fw SH: gry/brn, silty, easy-med crush, no cup odr, ns.	Queen Hill SH 3886' (-956)
		LS: It gry/lt tan, fn xln, v fw foss frags, fw dense, sm chlky, tr-nvp, sm pur chlk, v fw SH: gry/brn/grn, silty, fw waxy, no	
\$	3300	cup odr, ns.  LS: gry/tan, fn xin, fw foss brach/ plant frags, fw dense, sm chiky, travp, fw pcs pur chik, fw SH; gry/grn/brn, sity, fw	
		waxy, no cup odr, ns.	
3		LS: gry/tan, sm mott, fn xin, foss brach/cin/frags, sm ool, sm brittle, fw chiky, tr-nvp, fw pcs pur chik, fw SH: gry/grn/brn, sifty, sm waxy, easy-med crush, ns.	
		LS: It gry, fn xin, fw foss frags, m ostly dense, sm brittle, sm chiky, tr-nvp, fw pospur chik, fw SHt gry/brn, silty, easy-med crush, no cup odr, ns.	Mud-Co Check #4 @ 3970' 11/18/12 9:30am
<b>E</b>		LS: It gry/lt tan, fw xln, foss fuss/brach/frags, sm dense, sm brittle, rare scat pr intxln por, fw pcs pur chlk, fw pcs drk min	wt vis pH chl 9.1 51 11.0 2,000 Filt LCM
7		stns, no cut/fluor, no cup odr, ns. LS: gry/tan, sm mott, fn xin, foss brach/fuss/frags, sm ool, sm	8.0 2#
Heebner S	SH S	brittle, sm chlky, tr-nvp, svrl pos drk m in stns, no cutifluor, fw SH: gry/blk, silty, soft, fw carb, no cup odr, ns.	Heebner SH 3947' (-1017)
2	8	LS: It gry/tan, fn xln, sm foss frags, mostly brittle, fw dense/hard, tr-nvp, abund SH: gry/brn/grn/blk, silty, sm waxy,	
5	-	easy-med crush, sm carb, no cup odr, ns.  LS: gry/tan, fw mott, fn xln, sm foss brach/gast, sm dense, fw hard, fw gritty, tr-nvp, fw pcs w/ drk stns, no cut/fluor, pos drk	
<del>\$</del>		dead oil, abund SH: gry/brn/drk gry, sity, m ed crush, no cup odr, ns.	Toronto 3973' (-1043)
Toro	onto	LS: It tan/crm, fn xin, fw foss frags, mostly dense, sm chiky, tr-nvp, fw pcs pur chik, sm Chert: wht, foss, sharp, no cup odr, ns.	10101110 0010 (-1040)
7	0 0	LS: It gry/tan, fn xln, v fw foss frags, sm ool, mostly dense, sm chlky, tr-nvp, fw pur chlk, sm SH gry/brn, silty, sm muddy, no	
3	ing	cup odr, ns. LS: tan/lt gry, fn xln, profus foss brach/crin/fuss, svrl ool, sm	Longing 2004/ 4004)
ROP (min/ft)	10 Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	hard, sm flable, tr/? intfoss/intool por, no cup odr, ns.  LS: gry/lt tan, micro-fn xin, v fw foss frags, mostly dense, sm	Lansing 3994' (-1064)
5		brittle, sm chlky, tr-nvp, fw pcs pur chlk, v fw SH gry/brn, silty, med crush, no cup odr, ns.	
		LS: tan/lt tan, fn xln, v fw foss frags, mostly dense, sm	

prittle friable, tr-nvp, fw pcs chik, sm Chert; wht/tan, foss, svrl SH: gry/brn, silty, no cup odr, ns. LS: It tan, micro-fn xln, v fw foss frags, sm profus ool, mosity brittle, tr/? intfoss por in sm, fw SH: gry/brn, silty, no cup odr, C zone LS: It tan, fn xln, fw foss frags, sm profus ool, mostly brittle, mostly dense, tr-nvp, fw SH: gry/brn/grn, silty, fw waxy, no cup odr, ns.
LS: tan/lt tan, fn xin, sm foss crin/frags, mostly dense, sm CFS @ 4034' (30"/60") brittle, tr-nvp, svrl SH: gry/brn, silty, sm fissile, med crush, no -D zone culp odr. ns. LS: It tan, fn xln, fw foss frags, mostly dense, sm brittle, sm chlky, trnvp, sm SH gry/brn, silly, sm fissile, med crush, no cup odr. ns LS: tan/It tan, fn xin, profus foss brach/crin/fuss, mostly dense, sm brittle, fw chlky, tr-nvp, svrl SH: gry/grn/brn, silty, sm E zone LS: tan, micro-fn xln, sm foss brach/crin/frags, mostly dense, sm hard, fw brittle, tr/? ppt-intxln por on frac facies, vssfo, wk/? fluor, strm cut pal blu, no cup odr. CFS @ 4072' (30"/60") LS: It gry/It tan, fn xin, v fw foss frags, mostly dense, sm brittle, scat ppt-intxin por, scat it brn stns, scat dul y el fluor, strm cut pal blu, ssfo, v wk cup odr. LS: gry/lt tan, fn xln, sm foss frags, mostly dense, fw brittle, sm hard, tr-nvp, 1-2 pcs w/ It brn stns, scat dul yel fluor, cut pal blu, vssfo, no cup odr. CFS @ 4072' (30"/60") LS: tan/It gry, fn xln, sm foss fuss/frags, sm ool, m ostly dense, sm brittle, sms chlky, sm scat pr intool por, no cup odr, ns. φ<u></u> LS: It tan/it gry, fin xin, fw foss frags, sm ool, m ostly dense, sm chiky, sm brittle, tr-pr scatintxin/intool por, fw SH: gry/drk gry, silty, med crush, no cup odr, ns. 6 = LS: It tan/It gry, micro-fn xln, fw foss frags, mostly dense, sm chlky, sm brittle, fw flakey/mealy, tr-nvp, fw SH: gry/brn, silty, sm fissile, no cup odr, ns. DST #1 "H Zone" 11-19-2012 4140'-4176' 20-20-20-20 1st Open = Few Bubbles on Tool Open (No Blow Back) 2nd Open = A Few Bubbles on Tool Open (No Blow Back) IFP = 4-5# ISIP = 14# FFP = 5-6# FSIP = 16# LS: gry/lt tan, fn xln, fw foss frags, mostly dense, sm chiky, sm brittle, tr-nvp, v fw SH: gry, silty, med crush, no cup odr, ns. LS: tan/gry, micro-fin xin, fw foss frags, mostly dense, sm hard, tr-nvp, abund SH: gry/brn/blk, silty, sm fissile, sm carb, med HYDP = 1989-1958# 1'Total Fluid 1'DM crush, no cup odr, ns. LS: gry/tan, fn xln, v fw foss frags, mostly dense, sm hard, fw Muncie Cre flakey/mealy, tr-nvp, svrl SH: gry/brn/blk, silty, sm fissile, sm Muncie Creek 4144' (-1214) LS: gry/lt tan, sm mott, fn xln, profus foss brach/gast/crin. mostly dense, sm brittle, fr scat intfoss/vug por, It brn stns, scat dul yel fluor, strm cut pal blu, ssfo, gd cup odr. Mud-Co Check #5 @ 4176' 11/19/12 9:00am DST#1 wt vis pH chl 9.2 56 11.0 2,300 Filt LCM S: gry/lt tan, sm mott, fn xln, foss brach/crin/frags, mostly dense, sm brittle, gd scat intfoss/vug por, lt brn stn, scat dul yel fluor, strm cut pal blu, fr sfo, fr cup odr. LS: gry/lt tan, fn xln, sm foss brach/frags, mostly dense, fw brittle, sm flakey/mealy, sm chlky, tr/? intxln por in sm, no cup CFS @ 4176' (30"/60") LS: tan/It gry, m icro-fn xln, sm foss brach/frags/ool, mostly dense, sm brittle, fw pcs w/ pr intfoss/scat fr intxln por, dul yel fluor, strm cut pai blu, fr cup odr, fr sfo, 1-2 gas bubls on brk. LS: It tan, micro-fn xln, sm foss fuss/brach/frags, sm ool, mostly dense, sm brittle, scat fr intfoss/ool por, dul y el fluor, CFS @ 4202' (30"/60") DST#2 strm cut pal blu, sight cup odr, ss fo. Sam carpen but, gint cap our, association than, in xin, fw foss frags, fw ool, mostly dense, sm brittle, fw flakey/mealy, sm chiky, fr scat intxin por, scat dul yel fluor, strm cut pai blu, ssfo, gd-strg cup odr. Mud-Co Check #6 @ 4224' 11/20/12 9:30am vis 52 pH chi 10.0 3,000 LS: gry/lt tan, fn xln, mostly dense, sm chiky, fw flakey/meal, fw pcs w/ scat fr intxln por, 3-4 pcs w/ sho like disc above, fr Filt LCM cup odr. LS: It gry/It tan, fn xin, mostly dense, sm chiky, fw aly, tr-nvp, fiv pcs SHt gry/brn, silty, med crush, sm CFS @ 4224' (30"/60") Stark SH fissile, no cup odr, ns. LS: It tan, fn xin, sm prof foss, bracifus sigastifrags, sm ool, sm brittle, fr-gd inftoss-intool por, gas b ub is cling to por, duly el fluor, stmr cut pal blu, ssfo, gd-strog cup ofr, sm 'B: gryblik, silty, sm carb, Most likely from break in base of "J" above Stark SH. Stark SH 4224' (-1294) LS: gry/lt tan, fn xln, sm foss brach/frags, mostly brittle, sm chalky, fw pcs w/ pr intfoss por, sm pcs pur chlk, no cup odr, CFS @ 4247'(30"/60") LS: It gry/tan, fn xin, mostly dense, sm chiky, fw flakey/mealy, tr-nvp, fw pcs pur chlk, sm SH: gry/blk, silty, sm fissile, fw Hushpuckney SH carb, no cup odr, ns. 4262' (-1332) LS: gry/tan, fn xin, mostly dense, sm hard, sm flakey/mealy, tr-nvp, fw pcs w/ drk scat stns, no cut, sm chlky, sm SH: gry/blk, silty, fw fissile, sm carb, no cup odr, ns. LS: gry/tan, fn-crs xln, v fw foss frags, mostly dense, fw hard, fw pcs w/ pr scat intxln por, fw pcs pur chlk, no cup odr, ns. LS: It gry/tan, fn xln, fw foss frags, ,mostly uniform, mostly dense, sm brittle, sm chlky, tr-nvp, fw pcs pur chlk, no cup 250' GWMCO (53% OII, 22%WTR) 243' GOCMW (64% WTR, 15% OII) odr. ns. LS: It gry/tan, fn xln, sm foss brach/fuss, mostly uniform, sm R/KC brittle, sm chlky, tr-nvp, fw pcs pur chlk, fw pcs w/ lght brn stn, no fluor/cut, fw SH: gry/grn/blk, silty, easy-med crush, no Base of KC 4292' (-1362) cup odr. ns. SItStn: brn/gry, muddy, v soft, gritty, fw SH: gry/brn, silty, eas, crush, fw SS: brn, v fn grn, arg, easy-med crush, sm muddy, no cup odr, ns. LS: gry/tan, fn-crs xln, mostly dense, sm brittle, fw flakey/mealy, tr-nvp, svrl SH: brn/gry/grn, silty, fw fissile, easy-med crush, fw SS: brn, fn grn, arg, sm muddy, easy crush, no cup odr, ns. Marmaton Marmaton 4320' (-1390) LS: gry/tan, fn-crs xln, sm foss brach/crin/frags, mostly dense, hard, sm chlky, tr-nvp, sm SH: gry/grn, silty, sm fissile, med crush, no cup odr, ns. Lenapah 4331' (-1401) LS: gry/tan, fn xln, sm sandy/gritty/silty, m ostly dense, sm



	LS: tan/lt tan, fn xin, mostly dense, fw chilky, sm sandy/grithy, fw flakey/mealy, tr-nvp, abund SH: gry/brn/grn, silly, easy-med crush, no cup odr, ns.  LS: gry/tan, fn xin, mostly dense, fw chilky, sm sandy/grithy, tr-nvp, abund SH: gry/brn/grn, silty, fw fissile, easy-med crush, no cup odr, ns.  LS: tan/lt tan, fn xin, mostly dense, fw chilky, sm sandy/grithy, fw flakey/mealy, tr-nvp, abund SH: gry/brn/grn, silly, easy-med crush, no cup odr, ns.  LS: gry/tan, fn xin, mostly dense, sm sandy/grithy, fw flakey/m ealy, tr-nvp, swrl SH: gry/grn/brn, silly, fw flakey/m ealy, fw chilky, tr-nvp, swrl SH: gry/grn/brn, silly, fw fissile, easy-med crush, no cup odr, ns.	CFS @ 4700' (30"/60")
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Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



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

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

January 21, 2013

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

Re: ACO1

API 15-063-22033-00-00 H-W-Z 1-14 NW/4 Sec.14-13S-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

# ALLIED OIL & GAS SERVICES, LLC 056344 Federal Tax 1.D.# 20-5975804

RUSSELL, KANSAS 67665	Dat Lay Ko
DATE 1/4-12 SEC 14 TWP 13 RANGE / CAL	LED OUT ON LOCATION IOB START TOB FINISH 6330 pm 230pm 7330pm
LEASE /4012 WELLS /-/4 LOCATION Dakley	115, 59 35 1/28 GOVE STATE
OLD OBJEW Circle one) waito	110, 54 02, 1122 Gove 185
	OWNER Some
HOLDEIZE 12 YEAR TO JAN	CEMENT
CASINO SIZE 97/1 DEPTH 2201	AMOUNT ORDERED 163 sky com 32CC
TUBING SIZE DEPTH	- Rayel
DRILL PIPE DEPTH DEPTH	
<del>3 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </del>	COMMON 1655/50 1790 295350
MEAS. LINE SHOE JOINT	POZMIX
<del>2011-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-</del>	GRL 3 5/45 @ 23.40 70.20
	CHLORIDE 650 86400 38400 /
	ASC
EQUIPMENT	· · · · · · · · · · · · · · · · · · ·
PUMPTRUCK CHMENTER La Reme Catalonte	
# 481 HBLPBR Wayou degly hy	·
BULK TRUCK	0
# 347 DRIVER David Starings 3	
BULK TRUCK	
# DRIVER	HANDLING 1784/ FT @ 2.45 442.46 MILBAGE STATEMENT SI V. 260 444.44
10 Mari   17 M Co.	TOTAL SOLGO
RBMARKS:	170,93
MIX 1655 to coment	SKRVICE
Displace curth ciater	DISTRICE
Comentalid circulate	DEPTH OF JOB 220'
	PUMP TRUCK CHARGE 15/2, 25
	MKEAGE WING 8/ @ ZPO KALZO
1/20m/ \$09	MANIFOLD TWELLE @ 275,00
	MILCU 210 4.40 92.40
	<u> </u>
CHARGE TO: Grand Mesa	2000
	TOTAL 2011.35
STREET.	
CITYSTATEZIP	PLUG & FLOAT EQUIPMENT
	@
To: Allied Oil & Gas Services, LLC.	@
You are hereby requested to real cementing equipment	
and furnish cementer and helper(s) to assist owner or	<del></del>
contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or	TOTAL
contractor. I have read and understand the "GBNBRAL	SALES TAX (IF Any) 274.31
TERMS AND CONDITIONS" listed on the reverse side.	
44	TO IACCITATODO
DOINTED NAME ANTHONY MACTIC	DISCOUNT : 1520,62 IF PAID IN 30 DAYS
PRINTED NAME Anthony Mactio	4815,33
SIGNATURE Inthen / (ARI)	.,0
Sidinion International	24/0
•	

<b>JOB</b>	I AG
400	

SWIFT Services, Inc.

DATE // -23 -/2 PAGE NO.

CUSTOMER			WELL NO.		LEASE	
Grand			1-14		PRESSURE (PSI)	Coment 5/3 Longstring   13001
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAC)	PUMPS T C	TUBING CASIN	DESCRIPTION OF OPERATION AND MATERIALS 5/2 15.5
						TO-4700' TP-4362' set @ -4357'
						Shoc Jt - #1 11' P.C. top #47 2407'
						Shoc Jt - #1 16' P.C. top #47 2407'  Contralizer - #2 #3 #4 #5 #6 # 46
						Basket - # 2 # 47
						150 sks EA-2 w/ 1/4 Florele
	0530					on Location
· · · ·	4950		<u> </u>			On Edea I lovi
	1043.63		<del></del>			Start 5%" 15.5 " casing in well
	0620		-			Start Sty 15.0 casing in wen
	2010					Drop ball Circulate - Willes
	0812					Unap ball Circulate terror
		. 71		<b> </b>		- D - C - C - C - C - C - C - C - C - C
	0858	634	12	0	30	Pump 500gal Mudflish
	ļ	63/4	20	V	30	Pump 20 bbl ISCL Flush
			7~5			Plug RH - MH (30-20)
	0911	4/2	24	1	20	0 mix 100 sks EA-2 @ 15.5 pag
						12
						wash out Pump + Lines
			<del>- </del>			Relage Latch Down Plag
						Newse Land Coun 1/49
	60014	/ 3/	-		<del>                                     </del>	5 Start Displacement
<del></del>	0924	63/4	Ø	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<del>                                     </del>	Start Displacement
				ļ		
	ļ <u>.</u>		_	ļ <u> </u>	ļ	
	C77.44	63/4	103,4		18	Relaise PSI Hold
	0945					Relaise PSI Hold
				<u> </u>		
						wash up truck
	1020	1				Job Complete
	1.000	<u> </u>		1		
	<del>                                     </del>			+		
<del></del>	<del> </del>	-		<del>                                     </del>	1	Thank You
	<del> </del>	<u> </u>	-	1	<del>  </del>	Dave Blaine TJ Rob
<del></del>	ļ		<del>                                     </del>		+	Dave Blains 14 NOD
		<del> </del>		1		
		<u> </u>	<u> </u>	1 1		

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## SWIFT Services, Inc.

DATE 7-12 PAGE NO.

JOB EC	<u> </u>						ceo, Inc. //-8/-12 1
CUSTOMER	1 Meses	DT 6.	WELL NO.	1	HWZ	•	Ceasent Bit aller 22943
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T C	PRESSURI TUBING		DESCRIPTION OF OPERATION AND MATERIALS
110.	0830	(57.83)	(DOE) (OAL)	·			Dw loc - P.C. Tool
<del></del>	11:30						ON loc P.T - R5 rem Tog / tool
							C1 . DT AV - 78/6
							Locate P.C @ 2407 = 14 881 (89)
	1300				1200	1000	Tst. P.C closed - OK
		3	3		_		open P.C inj rate
				,			Hook to This -
···		3	15		300	8 C	Start H.D
		3	8		300		Have cre - Start and (SMD)
		3	95-		200	Ĺ	Cent. ciè @ 175 sks @ 11.2 4/500
		3			250		Tail in 25 50 @ 13 1/501
		3	105		250		Fin cont - Displ 13BB1 HO
		3	13		250		Fin Diagl.
	ļ					1000	Close P.C & tot closed-de
	<u> </u>						Den 5 Th they
			1375			<b> </b>	Revisut 2 Hags - cloan
	<u> </u>	ļ	30				Fix Resident - (30 BB) Hel
							Job Complete Washing To
	<u> </u>						Waging Thalays Tolo
	<u> </u>	ļ	<del> </del>				
			<del></del>				Mark Llow, Brian Job.
			<u> </u>				Man Low Brian Job.
			<del></del>			<del> </del>	· ·
<del></del>							175 3Ks @ 11. 2 /get to cir 25 5ts @ 13 #/get tail ind
							25 Sts @ 13 Tgel tail end
	-					ļ	200 SKS SMD USED
	-		<u> </u>				25 5K3 1 10%
	1010-10	-				<del> </del>	
-	14:45		1			<u> </u>	
<u></u>	<u> </u>	-	<b>+</b>	<del>                                     </del>			
			· <del> </del>			<del>                                     </del>	
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	J	1		<u> </u>	<u> </u>	<del></del>	

Pro-Stim Chemicals LLC Date/2-5-/2 **Acidizing Report** Pro-Stim Number Pro-Stim Chemical Yard DIYLON Customer 6 RAND MYSE Formation H-W-7 Field 1-14 Well Name & Number 4192-4196 Interval YD BHT State K5 County 60M Perf □ Disposal □ Water □ Gas □ Oil 🗆 Workover D Recompletion Completion □ Well Type: Packer Depth 4/50 Plug Depth Combination CTU Annulus□ Casing Tubing Job Pumped Via: Spot WT GRD **Tubing Size:** Depth GRD WT Casing Size: **Total Displacement** OH Vol Ann Vol Tbg Vol Casing Vol. Leave Loc AOL Proposed Pump Time Casing Tubing Maximum Pressure 1570 HC-1 Acid 5 RenaB Special Instructions: 250941 role of **Treatment Record** Observations Cum Increment Casing Rate BMP Tubing Type Fluid Vol Bbls Vol Bbls Time Safety Meeting Prs Test to SPOT ALId 10702 2.8 70 6.0 P( )Y 10116 30 1.1 2.8 1046 Flush 50 15 3.2 11 10120 250 233 0.0 10 22 0 300 233  $\sigma$ ,0 11 10122 300 23.5 5.0 10130 400 23.8 10743 1. 500 2318 0.0 10250 11 52 24.5 00 11703 4 70 24.7 . 3 11:05 460 25.5 . 3 11 11:09 タプ , 3 24.5 11:13 11 500 27.5 , 3 11717 il 450 2815 450 30 , 3 11 **Treatment Synopsis** Oil Acid Total Injected H2O 7 Fluid BPM Avg Inj Rate 15'SI # 4MM 10'SI ISIP 300 Final Treating Prs Pro-Stim Supervisor Customer Representative