Confidentiality Requested:

Yes No

#### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1264813

Form ACO-1 November 2016 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.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City:	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	Lease Name: Well #:
Designate Type of Completion:	Field Name:
☐ New Well ☐ Re-Entry ☐ Workover	Producing Formation:
Oil WSW SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR ☐ GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? ☐ Yes ☐ No
If Workover/Re-entry: Old Well Info as follows:	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 EOR       □ Conv. to SWD         □ Plug Back       □ Liner       □ Conv. to GSW       □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Paymit #	Chloride content:ppm Fluid volume:bbls
☐ Commingled     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	·
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date	Quarter Sec.         TwpS. 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 Drill Stem Tests Received					
Geologist Report / Mud Logs Received					
UIC Distribution					
ALT I II Approved by: Date:					

Page Two

1264813

Operator Name:				Lease I	Name: _			Well #:	
SecTw	pS. R		East West	County	":				
	, flowing and shu	ut-in pressures,	whether shut-in	n pressure reac	hed stati	c level, hydrosta	itic pressures, b		rval tested, time tool erature, fluid recovery,
Final Radioactivit						ogs must be ema	ailed to kcc-well-	logs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests 7			Yes No	)	L	· ·	on (Top), Depth		Sample
Samples Sent to	Geological Surv	/ey	Yes No	)	Nam	е		Тор	Datum
Cores Taken Electric Log Run Geolgist Report	_		Yes No Yes No Yes No	)					
List All E. Logs R	iun:								
				ING RECORD set-conductor, su	Ne	ew Used ermediate, product	ion, etc.		
Purpose of Str		e Hole rilled	Size Casing Set (In O.D.)	Weig	ght	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
	Di	illeu	Set (III O.D.)	LD3.7	/ I L.	Берит	Oement	Oseu	Additives
Purpose:	D	epth				JEEZE RECORD	T	Danie and Addition	
Perforate	Тор	Bottom	Type of Cement	# Sacks	SUsed	ed Type and Percent Additives			
Protect Ca	TD								
Plug Off Zo	one								
Did you perform	a hydraulic fractur	ring treatment on	this well?			Yes	No (If No, s	skip questions 2 aı	nd 3)
2. Does the volume		•	· ·			_		skip question 3)	of the ACO 1)
3. Was the hydraul					e registry?	Yes	No (If No, 1	ill out Page Three	of the ACO-1)
Date of first Production:	ction/Injection or R	lesumed Producti	on/ Producing  Flowing		ıg 🗌	Gas Lift (	Other (Explain)		
Estimated Produc	tion	Oil Bbls.	Gas	Mcf	Wat	er B	bls.	Gas-Oil Ratio	Gravity
Per 24 Hours									
DISPO	OSITION OF GAS:			METHOD OF	COMPLE	ETION:		PRODUCTION Top	ON INTERVAL: Bottom
	Sold Used	d on Lease	Open Hole	Perf.			mmingled mit ACO-4)	тор	Bottom
,	,								
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plu Set At	ıg	Acid		ementing Squeeze nd of Material Used,	
TUBING RECORE	D: Size:	Se	et At:	Packer At:					

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Moser C 6-28
Doc ID	1264813

# Tops

Name	Тор	Datum
Anhydrite (top)	3196	+98
Anhydrite (base)	3230	+64
Foraker	2794	-500
Topeka	4012	-718
Oread	4146	-852
Lansing A	4230	-936
Lansing B	4290	-996
Lansing C	4354	-1060
Lansing D	4394	-1100
Lansing E	4435	-1141
Lansing F	4474	-1180
Pawnee	4626	-1332
RTD	4658	-1364
LTD	4626	-1361

Form	ACO1 - Well Completion			
Operator	BEREXCO LLC			
Well Name	Moser C 6-28			
Doc ID	1264813			

## Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	304	Common	3%cc, 2%gel

# ALLIED OIL & GAS SERVICES, LEGL F

Federal Tax I.D. #20-5975804

	HLAKE, T	DAMS /	5092			,	SERVICE POINT	i: aldlan M
DATE @(22/K	SEC 28	TWP.	RANGE	C	ALLED OUT	ON LOCATI	ON LOBSTART	JOB FINISH
		1 . 3			&•		7:37	1/2:32
LEASE MASS	WELL#	5-48	LOCATION A	mode	evalue A	- TORA	2 CONTY	STATE
OLD OF NEW (Cir	rcle one)		3/8/5	11.	- 11/ - 7/	~	2 11/2019/10	1 /2()
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CONTRACTOR	perod	<u> 100                                  </u>	0		OWNER			
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CASING SIZE	18 5	DEI	TH 22 2	11-1		nepen 2	25 Com 397	*
TUBING SIZE		DEF	TH			CONTRO ME	\$-62x-51	<u> </u>
DRILL PIPE		DEF	TH		·//			"10 gel
TOOL		DEF	TH					
PRES. MAX		MIN	IMUM		COMMON	225	@ <i>1</i> )2	2 220-
MEAS. LINE		SHC	E JOINT		POZMIX			= 4222=
CEMENT LEFT IN	CSG.	/5	1	······································	GEL		@	
PERFS.					CHLORIDE		@ <u>127</u>	- 212
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<u>D</u>	RIVER		•		***************************************		@	
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TREET				·	HV MILEAGE LV MILEAGE	50	@ <b>&gt;</b> @ @	4,007.46 % 1812.35
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TREET	STATE	*		·	LV MILEAGE	50 D	@ \\ \_@ \\ \_@ \\ \_@ \\ \ \ \ \ \ \ \	% <u>1812.3</u> 5 T
TREET	STATE	:	ZIP		LV MILEAGE	50 D	@ \\ \_@ \\ \_@ \\ TOTAL \\ ISCOUNT \(\frac{45}{2}\)  AT EQUIPMEN \(\frac{4}{2}\)	% <u>1812.3</u> 5 T
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# CEMENTING LOG

STAGE NO.

Date_0/00/	T	Dell 1			766	CEMENT DATA:
	Lesson	C1.05-71 65-	T	icket No <i>llb)</i> io <i>bereLeo [</i>	7 (G F)	Spacer Type:
Lease	MOZO	W.	ř:	Nell No <i>[]</i>	2/2)	Amt. Sks Yield ft 1/sk Density PPC
	1 1			Vell No		
County Location	—- <i>P2014-</i> 210				(P)	LEAD: Pump Time hrs. Type Car 3 Dec C
Location			J.	ield		2 Place I hrs. Type to 172 C
CASING DATA	Conductor	[7] c	TA []	Squeeze [] M	Since I''l	Amt. 225 Sks Yield # ft 3/sk Density # PPC
		☐ Intermed			isc []	Amt. Sks Yield / H*/sk Density / 2** PPC
Siza 2512	Tuno	Main Main	rate I''I Li	Collar	ner 🗌	TAIL: Pump Timehrs. Type
5126 J 18	IVDe	vveic	gnt	Collar	****	Excess
						Amt. Sks Yield ft <sup>3</sup> /sk Density PPG
V						WATER: Lead 6 - S gals/sk Tail gals/sk Total Bbls
Carl 12 - 1 - 1	· UA					1085201
Casing Depths:	•		. Bottom			Pump Trucks Used 4954
terregal consequences and a second second		T		***************************************		Bulk Equip
	* ***			The state of the s		
Drill Pipe: Size	Uli.					
Drill Pipe: Size	13/11			Collars		A STATE OF THE PROPERTY OF THE
	· - /	T.D	ft.	P.B. to	ft,	Float Equip, Manufacturer
CAPACITY FACT	ORS:	12623				Shoe: Type Depth
Casing:				ЗЫ		Float; Type Depth
Open Holes:				3bl		Centralizers: Quantity Plugs Top Btm.
Drill Pipe:				3bl		Stage Collars
Annulus:				3bl		Special Equip.
	Bbls/Lin. ft		Lin. ft./E	3bl		Disp. Fluid Type TAG Amt. Bbls. Weight PPG
Perforations:	From	ft. to		ft. Amt	······································	Mud Type Weight PPG
				7.4		
COMPANY REPR	RESENTATIVE					CEMENTER CELEPTON
7710.07	70050011	00000	F	DES EST OF COMPANY		
TIME	PRESSU	1		JID PUMPED	<del></del>	REMARKS
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	Bbls Min	
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Berexco LLC

28 1S 36W Rawlins KS

Moser C 6-28

Job Ticket: 65066

DST#: 1

ATTN: Bryan Bynog

Wichita KS 67206

2020 N Bramblew ood

Test Start: 2015.06.27 @ 09:15:00

#### **GENERAL INFORMATION:**

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:36:30 Time Test Ended: 18:31:30

4170.00 ft (KB) To 4270.00 ft (KB) (TVD) Interval:

Total Depth: 4270.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Initial)

Tester: Robert Zodrow

Unit No: 66

3305.00 ft (KB)

Reference Elevations:

3294.00 ft (CF) KB to GR/CF: 11.00 ft

Serial #: 6741 Press@RunDepth: Inside

170.13 psig @

4171.00 ft (KB)

2015.06.27

Capacity:

8000.00 psig

Start Date: Start Time: 2015.06.27 09:15:05 End Date: End Time:

18:31:30

Last Calib.: Time On Btm:

2015.06.27 2015.06.27 @ 11:35:30

Time Off Btm:

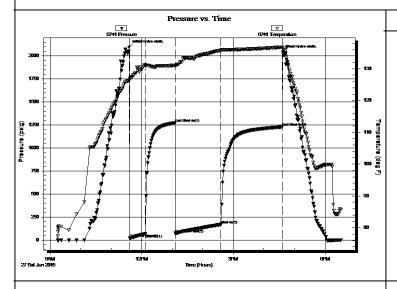
2015.06.27 @ 16:37:00

TEST COMMENT: 30-IF- Blow built to 3 1/8"

60-ISI- No return

90-FF- Blow started in 20 mins built to 3/12"

120-FSI- No return



#### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2094.88	126.30	Initial Hydro-static
1	19.52	126.61	Open To Flow (1)
32	67.04	131.14	Shut-In(1)
90	1271.63	131.10	End Shut-In(1)
91	72.84	130.80	Open To Flow (2)
180	170.13	135.74	Shut-In(2)
301	1228.34	136.75	End Shut-In(2)
302	2040.44	136.40	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
230.00	MUD w ith oil spots	1.13
ļ		

#### Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 65066 Printed: 2015.06.27 @ 22:41:08



**FLUID SUMMARY** 

Berexco LLC

28 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Moser C 6-28

Serial #:

Job Ticket: 65066

DST#: 1

ATTN: Bryan Bynog

Test Start: 2015.06.27 @ 09:15:00

**Mud and Cushion Information** 

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 62.00 sec/qt Cushion Volume: bbl

Water Loss: 6.00 in<sup>3</sup> Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 600.00 ppm Filter Cake: 2.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
230.00	MUD with oil spots	1.131

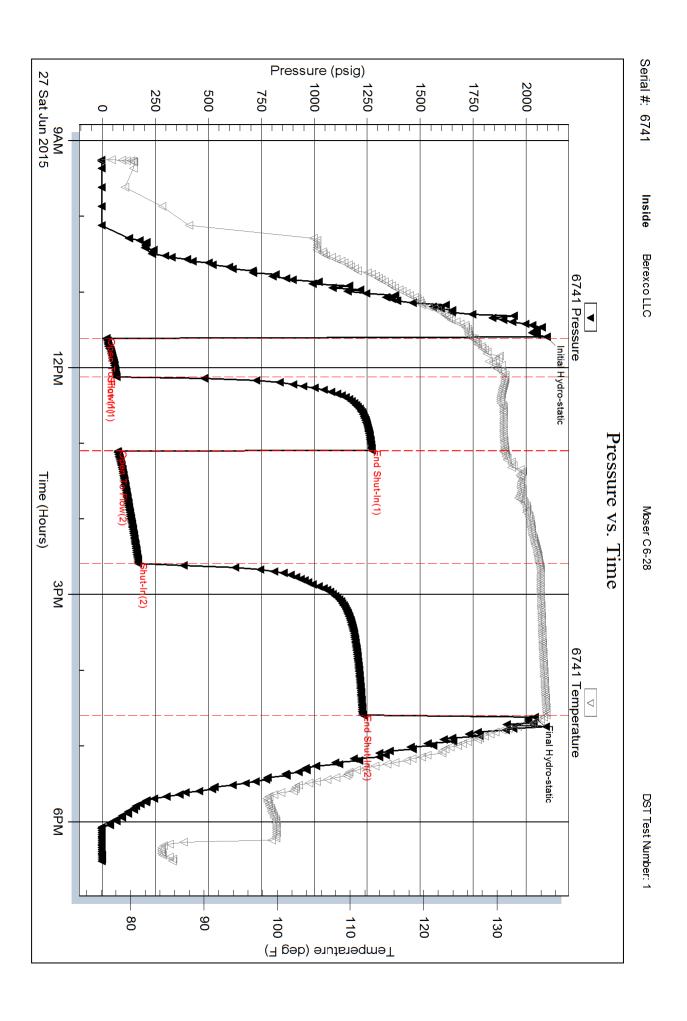
Total Length: 230.00 ft Total Volume: 1.131 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65066 Printed: 2015.06.27 @ 22:41:08





Berexco LLC

28 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206

Moser C 6-28

Job Ticket: 65067

DST#: 2

ATTN: Bryan Bynog

Test Start: 2015.06.28 @ 04:20:00

#### **GENERAL INFORMATION:**

Formation: LKC "B"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:21:30 Time Test Ended: 14:06:30

Unit No:

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow

66

4250.00 ft (KB) To 4330.00 ft (KB) (TVD)

Reference Elevations:

3305.00 ft (KB)

Total Depth: 4330.00 ft (KB) (TVD)

3294.00 ft (CF)

7.88 inches Hole Condition: Fair Hole Diameter:

KB to GR/CF: 11.00 ft

Serial #: 6741 Press@RunDepth: Inside

426.10 psig @

4251.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

2015.06.28

Start Date: Start Time:

Interval:

2015.06.28 04:20:05 End Date: End Time: 2015.06.28 14:06:30

Time On Btm: 2015.06.28 @ 06:21:00

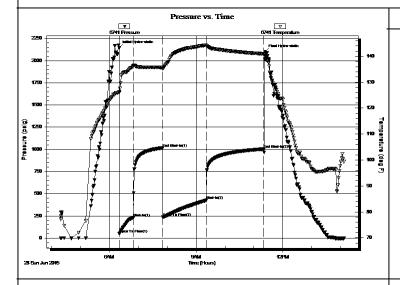
Time Off Btm:

2015.06.28 @ 11:23:30

TEST COMMENT: 30-IF- Bob in 13 mins

60-ISI- No return 90-FF- Bob in 19 mins

120-FSI- Surface blow on return died in 50 mins



Р	RESSUR	RE S	UMM	ARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2141.95	126.17	Initial Hydro-static
1	48.99	126.01	Open To Flow (1)
30	229.75	136.32	Shut-In(1)
90	1016.82	135.65	End Shut-In(1)
91	235.78	135.25	Open To Flow (2)
180	426.10	144.26	Shut-In(2)
300	1003.89	140.94	End Shut-In(2)
303	2100.65	138.91	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
595.00	OCMW 2%O 25%M 73%W	4.66
125.00	OCWM 15%O 20%W 65%M	1.75
190.00 OCM 25%O 75%M		2.67
20.00	CO 2%G 98%O	0.28
* Recovery from mult	inle tests	

#### Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc. Ref. No: 65067 Printed: 2015.06.28 @ 22:45:58



**FLUID SUMMARY** 

Berexco LLC

28 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Moser C 6-28

Job Ticket: 65067

DST#: 2

ATTN: Bryan Bynog

Test Start: 2015.06.28 @ 04:20:00

#### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil A Pl:20 deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:20000 ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft W Viscosity: 60.00 sec/qt Cushion Volume: bbl

Water Loss: 6.40 in<sup>3</sup> Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 700.00 ppm Filter Cake: 2.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl	
595.00	OCMW 2%O 25%M 73%W	4.657	
125.00	OCWM 15%O 20%W 65%M	1.753	
190.00	OCM 25%O 75%M	2.665	
20.00	CO 2%G 98%O	0.281	

Total Length: 930.00 ft Total Volume: 9.356 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location: Recovery Comments: RW .260 @ 94.4 Deg F = 20000

Trilobite Testing, Inc Ref. No: 65067 Printed: 2015.06.28 @ 22:45:59

Trilobite Testing, Inc

Ref. No: 65067

Printed: 2015.06.28 @ 22:45:59



Berexco LLC

28 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206

Moser C 6-28

Job Ticket: 65069

DST#: 3

ATTN: Bryan Bynog

Test Start: 2015.06.29 @ 05:30:00

#### **GENERAL INFORMATION:**

Formation: LKC " C and D

Deviated: Whipstock: ft (KB)

Time Tool Opened: 07:59:30 Time Test Ended: 14:14:00

4310.00 ft (KB) To 4420.00 ft (KB) (TVD)

Total Depth: 4420.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Tester: Robert Zodrow Unit No: 66

Reference Elevations:

3305.00 ft (KB)

3294.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6741 Press@RunDepth:

Interval:

Inside

47.10 psig @

4311.00 ft (KB)

2015.06.29

Capacity:

8000.00 psig

Start Date: Start Time: 05:30:05

2015.06.29

End Date: End Time:

14:14:00

Last Calib.: Time On Btm:

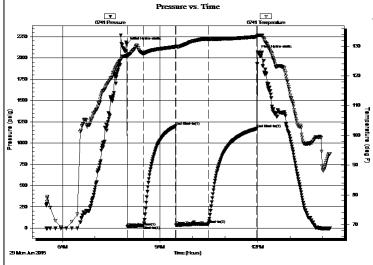
2015.06.29 2015.06.29 @ 07:59:00

Time Off Btm:

2015.06.29 @ 12:00:30

TEST COMMENT: 30-IF- Blow built to 1"

60-ISI- No return 60-FF- No blow 90-FSI- No return



Ц				
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2164.33	126.74	Initial Hydro-static
	1	19.49	126.86	Open To Flow (1)
	31	30.75	127.50	Shut-In(1)
	90	1198.72	129.75	End Shut-In(1)
	91	34.81	129.98	Open To Flow (2)
	150	47.10	132.40	Shut-In(2)
	240	1169.18	133.15	End Shut-In(2)
	242	2067.52	133.69	Final Hydro-static

PRESSURE SUMMARY

#### Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUD with oil spots	0.30
* Recovery from mult	tiple tests	

Gas Rates			
	Choke (inches)	Pressure (neig)	Gas Rate (Mcf/d)

Ref. No: 65069 Printed: 2015.06.29 @ 14:41:33 Trilobite Testing, Inc



**FLUID SUMMARY** 

DST#: 3

Berexco LLC 28 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206

ATTN: Bryan Bynog

Moser C 6-28

Job Ticket: 65069

Test Start: 2015.06.29 @ 05:30:00

Serial #:

**Mud and Cushion Information** 

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:54.00 sec/qtCushion Volume:bbl

Water Loss: 6.80 in<sup>3</sup> Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 2.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
60.00	MUD with oil spots	0.295

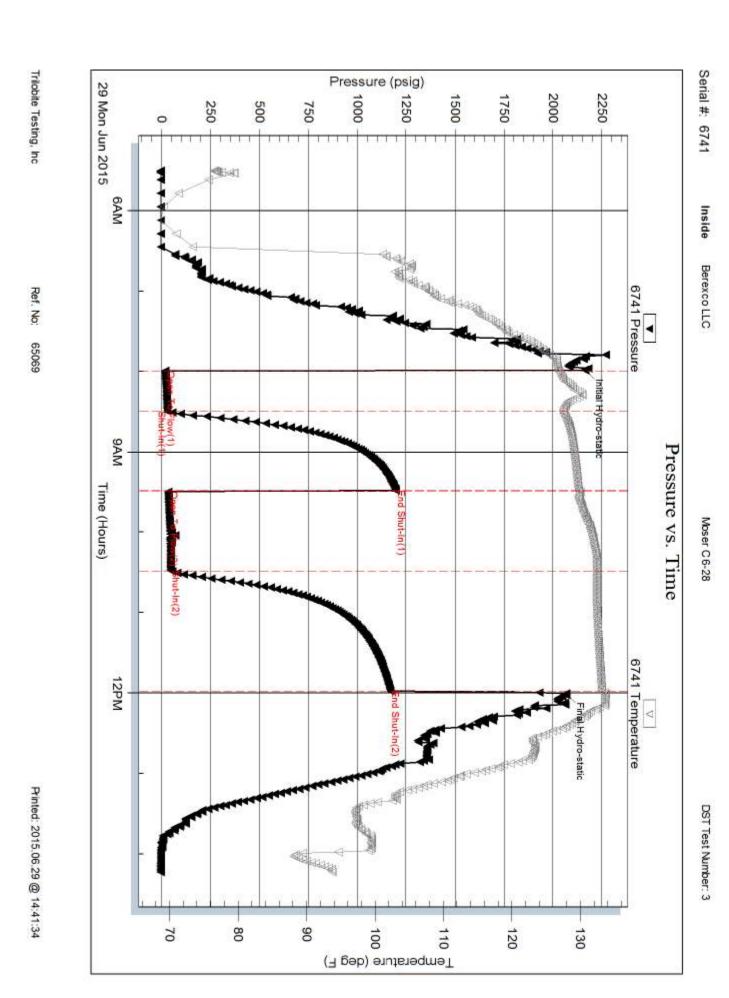
Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65069 Printed: 2015.06.29 @ 14:41:34





Berexco LLC

28 1S 36W Rawlins KS

Moser C 6-28

Job Ticket: 65069

DST#:4

ATTN: Bryan Bynog

2020 N Bramblew ood

Wichita KS 67206

Test Start: 2015.07.01 @ 01:40:00

#### **GENERAL INFORMATION:**

Formation: LKC "E"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:47:00 Time Test Ended: 09:46:00

Interval: 4408.00 ft (KB) To 4460.00 ft (KB) (TVD)

Total Depth: 4460.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Tester: 66

Robert Zodrow

Unit No:

3305.00 ft (KB)

Reference Elevations:

3294.00 ft (CF)

KB to GR/CF: 11.00 ft

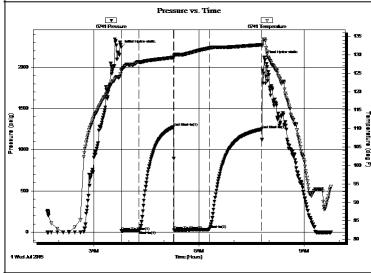
Serial #: 6741 Inside

Press@RunDepth: 4409.00 ft (KB) Capacity: 35.26 psig @ 8000.00 psig

Start Date: 2015.07.01 End Date: 2015.07.01 Last Calib.: 2015.07.01 Start Time: 01:40:05 End Time: 09:45:59 Time On Btm: 2015.07.01 @ 03:46:30 Time Off Btm: 2015.07.01 @ 07:51:29

TEST COMMENT: 30-IF- Blow built to 1/4"

60-ISI- No return 60-FF- No blow 90-ISI- No return



		PI	RESSUR	RE SUMMARY
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2239.26	125.73	Initial Hydro-static
	1	15.10	125.77	Open To Flow (1)
	31	20.34	127.98	Shut-In(1)
	90	1274.27	129.30	End Shut-In(1)
	91	22.83	129.75	Open To Flow (2)
	151	35.26	131.84	Shut-In(2)
,	241	1247.14	132.74	End Shut-In(2)
9	245	2115.86	134.22	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%M	0.05
* Recovery from mult	tiple tests	

Gas Rates		
Choke (inches)	Proceure (peig)	Cas Pate (Mcf/d)

Trilobite Testing, Inc Ref. No: 65069 Printed: 2015.07.01 @ 11:33:41



**FLUID SUMMARY** 

Berexco LLC

28 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Moser C 6-28

Job Ticket: 65069

Serial #:

DST#: 4

ATTN: Bryan Bynog

Test Start: 2015.07.01 @ 01:40:00

#### **Mud and Cushion Information**

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 51.00 sec/qt Cushion Volume: bbl

Water Loss: 7.20 in<sup>3</sup> Gas Cushion Type:

Resistivity: 0.00 ohm.m Gas Cushion Pressure: psig

Salinity: 1000.00 ppm Filter Cake: 2.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl	
10.00	MUD 100%M	0.049	

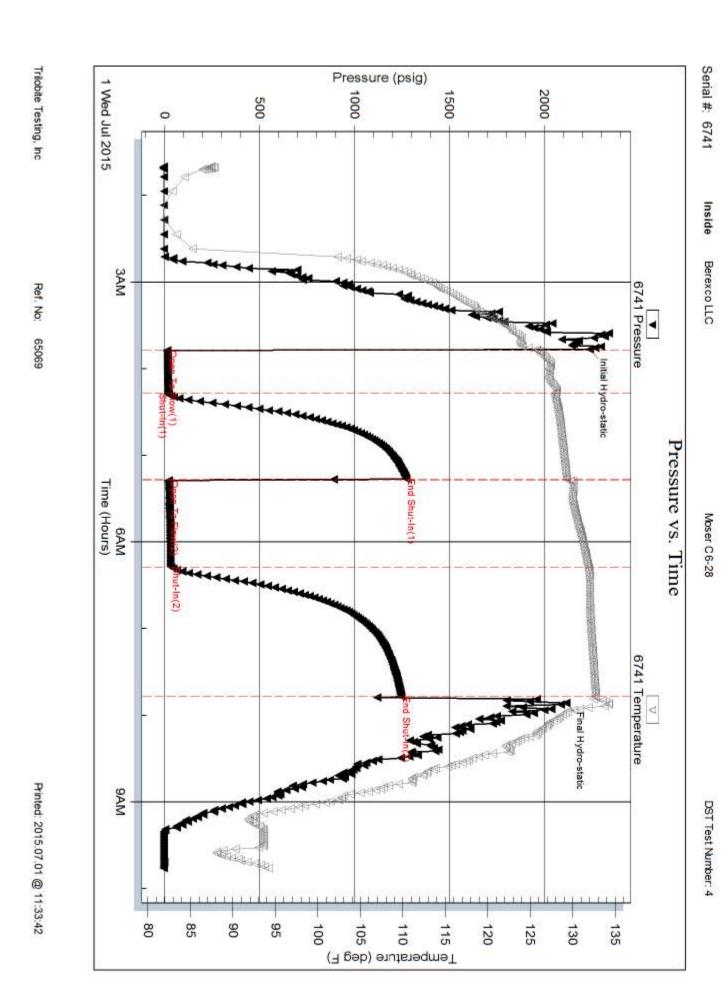
Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 65069 Printed: 2015.07.01 @ 11:33:42



# BEREXCO, LLC. MOSER C #6-28 S2S2SW SECTION 28 1S-36W RAWLINS COUNTY, KANSAS

GEOLOGIST WILLIAM B. BYNOG

#### RESUME

**OPERATOR:** 

BEREXCO, LLC.

WELL NAME & NUMBER:

MOSER C #6-28

LOCATION:

**S2S2SW SECTION 28 1S-36W** 

COUNTY:

**RAWLINS** 

STATE:

**KANSAS** 

SPUD DATE: 6-22-2015

COMPLETION DATE: 7-2-2015

**ELEVATIONS:** 

GL: 3283

KB: 3294

CONTRACTOR:

**BEREDCO RIG 10** 

LOGS: LOG TECH

TYPES: RAG, MICROLOG & DIL

WELLSITE ENGINEER:

**NONE** 

MUD COMPANY:

MORGAN MUD

MUD TYPE & ENGINEER:

FRESH CHEMICAL

GEOLOGIST:

WILLIAM B. BYNOG

HOLE SIZE:

7 7/8

MUD LOGGING BY:

NONE

DRILL STEM TEST COMPANY:

TRILOBITE

DRILL STEM TEST:

DST#1 4170-4270, DST#2 4250-4330, DST#3 4310-4420 & DST#4 4408-4460

WELL STATUS:

PLUG & ABANDON

#### DISCUSSION

Moser C #6-28 1S-36W was drilled a total depth of 4658 feet testing the Lansing Kansas City and Pawnee formations in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control, just southwest of East Fork field on a satellite structure.

Structurally, Moser C #6-28 came in 13 feet low to the prognosis and low to productive wells in the area.

As a result of running low there were either tight or wet zones with poor to fair porosity development and low resistivity.

While drilling ahead there were minor shows of dead oil up hole in the upper Foraker and Wabunsee formations, none worthy of a drill stem test. The Lansing A zone was the first live oil show encountered in a fossiliferous Limestone and was tested on drill stem test #1 recovering 230 feet of oil spotted mud. The B zone was associated with a good drilling break, fair to good porosity development and good live sample shows in a fossiliferous Grainstone. This zone was tested on drill stem test #2 recovering 930 feet of total fluid; 20 feet of oil, 190 feet of oil cut mud (25% oil), 125 feet of oil and water cut mud (15 oil, 20% water and 65% mud) and 595 feet of oil and mud cut water (2% oil, 73% water and 25% mud). Drilling continued to the C zone encountering good live oil shows. The C and D zones were tested together on drill stem test #3 recovering 60 feet of oil spotted mud. The E zone had a very faint oil show with a poor cut and was tested on drill stem test #4 recovering only 10 feet of mud.

Logs agreed with sample evaluation recording poor to fair porosity development. The zones that were permeable appeared to be wet on logs and drill stem tests.

A decision was made to plug and abandon due to the low oil recoveries on drill stem tests and wet or tight log calculations.

3700-96 SHALE red, fair, very silty

3796-3808 LIMESTONE white, slightly hard, oolitic, very chalky, poor vis porosity, spotty black dead stain, no free oil, abundant Chert orange

3808-40 LIMESTONE pale gray, hard, blocky, dirty, silty in part, no shows with thin SHALE green, firm, waxy

3840-50 SANDSTONE off white, firm, very fine grained, argillaceous, calcareous cement, poor porosity, no shows

3850-3900 SHALE red, some green, soft, very argillaceous, with thin LIMESTONE white, soft, very chalky, some Chert orange

3900-24 SHALE red, green, firm, silty

3924-30 LIMESTONE buff,hard,blocky,slightly fossils,dense,poor porosity,no shows

3930-64 SHALE as above with thin LIMESTONE as above

3964-76 LIMESTONE off white, firm, oolitic, chalky, poor pinpoint vuggy porosity, abundant black dead stain, nfo

3976-96 SHALE as above

**FORAKER** 

 $3996\text{-}4002 \ LIMESTONE \ buff, hard, blocky, slightly \ fossils, poor \ porosity, very \ spotty \ black \ dead \ stain, nfo$ 

4002-08 SHALE red, firm, fissile

TOPEKA

4008-46 LIMESTONE buff,pale gray,very hard,dense,blocky,crptoxln, abundant Chert white,orange

4046-50 SHALE red, soft, very argillaceous

4050-68 SANDSTONE pale red, friable, very fine grained, very argillaceous, fair vis porosity, no shows

4068-78 SHALE red, soft, very argillaceous

4078-4100 LIMESTONE white, firm, fossils, very chalky, poor to fair intergranular to crystalline porosity, no shows

4100-32 SHALE maroon, slightly hard, very silty

4132-44 SHALE red, soft, very argillaceous

**OREAD** 

4144-62 LIMESTONE white, firm, microcrystalline to chalky, poor to fair microcrystalline porosity, no shows

4162-86 LIMESTONE buff,pale tan,very hard,dense,blocky,crptoxln,no shows
4186-4202 SHALE dark gray, gray black, hard, silty in part, slightly carbonaceous
4202-08 SHALE gray, firm, silty, some sandy in part, very fine grained, poor porosity, no shows
4208-32 SHALE red, very soft, very argillaceous A
4232-46 LIMESTONE pale gray, firm, very fossils, fair to good oocastic moldic porosity, spotty to even live brown stain, very good cut, very good show free oil
4246-60 LIMESTONE buff,pale tan,very hard,very dense,crptoxln,no shows some Chert orange
4260-64 SANDSTONE translucent, friable, very fine grained, poor to fair intergranular porosity, no shows with SHALE as above
4264-92 SHALE red, firm, very silty
В
4292-4305 GRAINSTONE white, firm, very fossils, chalky in part, fair to good intergranular porosity, spotty to even live black stain, very good cut, good show free oil

4305-12 LIMESTONE buff,hard,blocky,very chalky in part,poor vis porosity,very spotty live black stain,good cut

4312-30 SHALE green,red,firm,silty with thin LIMESTONE buff,pale gray,hard,dense,poor porosity,no shows
4330-52 SHALE red, firm, fissile, argillaceous
4352-48 LIMESTONE buff,hard,slightly fossils,dense,poor porosity,no shows
4358-62 LIMESTONE white, firm, fossils, chalky in part, poor to fair intergranular porosity, spotty live brown stain, fair cut, poor show free oil
4362-68 LIMESTONE buff,hard,dense,chalky,poor porosity,no shows
4368-94 SHALE green, firm, argillaceous D
4394-98 LIMESTONE buff, very hard, dense, blocky, crptoxln, no shows
4398-4408 LIMESTONE buff, slightly hard, fossils, microcrystalline, poor to fair intxln porosity, spotty faint brown stain, fair slow cut, no free oil
4408-20 LIMESTONE buff, very hard, dense, crptoxln, no shows with thin SHALE as above
4420-40 SHALE red, firm, fissile, argillaceous

E

4439-45 LIMESTONE buff,hard,blocky,chalky in part,poor vis porosity,no shows

4445-52 LIMESTONE white, firm, slightly fossils, chalky, poor vis microcrystalline porosity, very spotty faint brown stain, very faint cut, no free oil

4452-58 LIMESTONE buff, hard, dense, chalky in part, no shows

4458-74 SHALE red, firm, fissile

F

4474-4500 LIMESTONE buff, very hard, dense, crptoxln, no shows with thin SHALE as above

4500-12 LIMESTONE white, firm, chalky, fossils, poor vis porosity, no shows

4512-80 SHALE red, firm, silty, sandy in part with thin LIMESTONE buff, very hard, dense, crptoxln

4580-90 LIMESTONE pale gray, hard, chalky, dirty, sandy in part, poor porosity, no shows

4590-4632 SHALE red, firm, fissile

**PAWNEE** 

4632-50 LIMESTONE buff,hard,blocky,microcrystalline,sandy in part,poor porosity,no shows

4650-58 SHALE as above becoming very argillaceous

RTD 4658'

LTD 4655'

# WELL-ILI ALLIED OIL & GAS SERVICES, LI Federal Tax 1.D. #20-5975804 BOX 93999 THLAKE TOO

REMÍT TO P.O. BOX 93999 SOUTHLAKÉ, TEXAS 76092	SERVICE POINT:
DATE 7/2/15 SEC. 29 TWP. RANGE 56 CA	ALLED OUT ON LOCATION JOB START JOB FINISH
LEASE MOSELC WELL # 6 -28 LOCATION ALL	COUNTY STATE
OLD OR NEW (Circle one)	grade to to all 2 fourthy Fr
CONTRACTOR GERALO 10 TYPE OF JOB PTA	OWNER Some 103 4,25
HOLE SIZE 7 T.D.	CEMENT
CASING SIZE 6 4 DEPTH	AMOUNT ORDERED 255 60/40 4000
TUBING SIZE DEPTH	AMOUNT ORDERED 255 6/11/1/ CONST
DRILL PIPE DEPTH	- Tylpu
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON@
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG.	GEL @
PERËS.	CHLORIDE 255 @
DISPLACEMENT	455 ALW 60/48 450 @ 18 4 483 460
EQUIPMENT	@ @
- AA 1 0	10 5 and 64 16 @ 2 1 190 00
PUMPTRUCK CEMENTER TON KUMP	
# 45/ HELPER INDONE Machely	
BULK TRUCK	
# 8 (8 DRIVER Keein Lyan	
BULK TRUCK # DRIVER	
REMARKS:	DISCOUNT 25 % DYN 7-Q5 SERVICE
505/40 3215	SERVICE
180 6110 2432	HANDLING 2/28) (7- @2 40 679-2010
to sli a sed	MILEAGE 725 700/all 1143 700 1572 25843
10 9/20 1101	
- 1 the Completion of the comp	DEPTH OF JOB
15 5/ -M H	PUMP TRUCK CHARGE 32/5 2600
30 91- 27	EXTRA FOOTAGE. @
q · · · · · · · · · · · · · · · · · · ·	HV MILEAGE 30 @ 22 385 85
. 1	LY MILEAGE @
CHARGE TO: Por Car (4)	
STREET	TOTAL STATES
CITYSTATEZIP	DISCOUNT 18% 3513.81
	PLUG & FLOAT EQUIPMENT
	PS/2/1/2011 11 0 11095
To: Allied Oil & Gas Services, LLC.	o 10 poodant my @ (160
You are hereby requested to rent cementing equipment	
and furnish cementer and helper(s) to assist owner or	
contractor to do work as is listed. The above work was	
done to satisfaction and supervision of owner agent or	
contractor. I have read and understand the "GENERAL.	TOTAL MOOD
TERMS AND CONDITIONS" listed on the reverse side.	DISCOUNT ( %
	SALES TAX (If Any) 845.77 8/8,98
million + Duil	
PRINTED NAME CITIO ET DAV. A	TOTAL CHARGES 10, 3 66.
	DISCOUNT 1926.76 1870 IF PAID IN 30 DAYS
SIGNATURE AMA O	NET TOTAL STORYS IF PAID IN 30 DAYS
	4923
Y	11 - EU13.



# CEMENTING LOG

STAGE NO.

Total	Date 2/2/	5 District Og//a	Ticket No. 26 > 5 2 (	CEMENT DATA:
Lose   March   County   County   State   Art   State   Art   County   County   County   State   Art   State   Art   County   State   Art   State   Art   County   State   Art   County   State   Art   County   State   Art   County   County   State   Art   County   Art   Art   County   Art   Art   County   Art   Art   County   Art   County   Art   County   Art   County   Art   Ar	Company		<i>r a a a a a a a a a a a a a a a a a a a</i>	
Country   Countr		4. 4	- 0	Ant Sks Yield ft <sup>a</sup> /sk Density PPG
LEAD: Pump Time			77.7~	
CASING DATA: Conductor PTA PTA PT Squeeze Miss   Production   Liner   Ant. A55   Ska Yield   It 7/sk Density   PPG   Size W   Type   Weight   Collar   Excess   Ant. Ska Yield   It 7/sk Density   PPG   WATER: Lead   Pump Time   It 7/sk Density   PPG   Denth Hole: Size   It 7/sk Density   PPG	•			
Size Winds   Production   Liner   TAll: Pump Time   Its. Type   Excess    Amil.   Sise Yield   Its Type   Excess    WATER Lead   Its Type   Excess    WATER Lead   Its Type   Excess    Bulk Equip.   Bulk Equip.    Dell Pipes Size   Its   Whight   Collars    Open Holes: Size   Its   Tho.   It. P.B. to   It. Float Equip Manufacturer    CAPACITY FACTORS:   Shoe: Type   Depth    Casing   Biles / Lin. It.   Bulk   Excess   Excess    Casing   Biles / Lin. It.   It.   It.   It.   It.   It.    Dell Pipes   Biles / Lin. It.   It.   It.   It.   It.    Biles / Lin. It.   It.   It.   It.   It.   It.    Biles / Lin. It.   It.   It.   It.   It.   It.   It.    Biles / Lin. It.   It.   It.   It.   It.   It.    Biles / Lin. It.   It.   It.   It.   It.   It.    Biles / Lin. It.   It.   It.   It.   It.    Biles / Lin. It.   Biles   Weight   PPG    COMPANY REPRESENTATIVE   CEMENTER   It.    TIME   PRESSURES PSI   FLUID PUMPED DATA   REMARKS    TIME   PRESSURES PSI   FLUID PUMPED DATA   REMARKS    TIME   PRESSURES PSI   FLUID PUMPED DATA   REMARKS    Bulk Min.   Signate   Signate   Signate   Signate    Bulk Min.   Signate   Signate   Signate    Bulk	CASING DATA	: Conductor	PTA Squeeze C Miss C	المساد ال
Size of Type Weight Collar Excess PPG WATER Lead P gals/sk Total Bibs.  Casing Depths: Top Bottom Pump Trucks Used Y S gals/sk Total gals/sk Total Bibs.  Casing Depths: Size A (	80	,		
Amt. Sisk Yield 16-2-3 k Density PPG WATER: Load 6-7 gala/sk Tail gala/sk Total 8hbs.  Casing Depths: Top Bottom Pump Trucks Used 41-4 Bulk Equip. 84-0 Bulk Equip. 94-0 Bulk Eq	Size B 18	,		
Casing Depths: Top		11110	Outer	
Casing Depths; Top				MINITED Local (1975)
Bulk Equip.  Bulk In.				gais/sk total Bbls.
Bulk Equip.  Bulk In.	Casing Depths:	Top	Rottom	Pump Trucka Usad V3/
Drill Pipe: Size				77.5.)
Doll Pipe: Size Weight Collars Open Hole: Size Ja T.D. ft. P.B. to ft. Float Equip: Manufacturer  CAPACITY FACTORS: Casing: Bbls/Lin. ft. 103 Lin. ft./Bbl. Float: Type Depth Open Holes: Bibs/Lin. ft. 1140 Lin. ft./Bbl. Centralizers: Quantity Plugs Top Bltm.  Drill Pipe: Bbls/Lin. ft. 1140 Lin. ft./Bbl. Stage Collars Annulus: Bbls/Lin. ft. Lin. ft./Bbl. Special Equip. Bbls/Lin. ft. Lin. ft./Bbl. Disp. Fluid Type Annt. Bbls: Weight PPG  Perforations: From ft. to ft. Amt. Mud Type Annt. Bbls: Weight PPG  COMPANY REPRESENTATIVE  COMPANY REPRESENTATIVE  COMPANY BRESSURES PSI FLUID PUMPED DATA  TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per BATE Time Period Bbls Min.  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per BATE Time Period Bbls Min.  BUS Manuel Stage Manuel  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per BATE Time Period Bbls Min.  BUS Manuel Stage Manuel  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per BATE Time Period Bbls Min.  BUS Manuel Bbls Min.  BUS Manuel Bbls Min.  BUS Manuel  BUS Min.  BUS Min.  BUS Manuel  BUS Min.				pow cdaib.
Doll Pipe: Size Weight Collars Open Hole: Size Ja T.D. ft. P.B. to ft. Float Equip: Manufacturer  CAPACITY FACTORS: Casing: Bbls/Lin. ft. 103 Lin. ft./Bbl. Float: Type Depth Open Holes: Bibs/Lin. ft. 1140 Lin. ft./Bbl. Centralizers: Quantity Plugs Top Bltm.  Drill Pipe: Bbls/Lin. ft. 1140 Lin. ft./Bbl. Stage Collars Annulus: Bbls/Lin. ft. Lin. ft./Bbl. Special Equip. Bbls/Lin. ft. Lin. ft./Bbl. Disp. Fluid Type Annt. Bbls: Weight PPG  Perforations: From ft. to ft. Amt. Mud Type Annt. Bbls: Weight PPG  COMPANY REPRESENTATIVE  COMPANY REPRESENTATIVE  COMPANY BRESSURES PSI FLUID PUMPED DATA  TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per BATE Time Period Bbls Min.  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per BATE Time Period Bbls Min.  BUS Manuel Stage Manuel  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per BATE Time Period Bbls Min.  BUS Manuel Stage Manuel  AM/PM DRILL PIPE ANNULUS TOTAL Pumped Per BATE Time Period Bbls Min.  BUS Manuel Bbls Min.  BUS Manuel Bbls Min.  BUS Manuel  BUS Min.  BUS Min.  BUS Manuel  BUS Min.				
Open Hole: Size 7/2 T.D. 1. P.B. to 1. P.B.	Drill Pipe: Size	G/ L Weigh	nt Collars	
CAPACITY FACTORS: Casing: Bbls/Lin. ft. #03 Lin. [t./Bbl. Float: Type Depth De		~ <i>u</i> / / ~ ~ ~		Float Equip: Manufactures
Casing: Bbls/Lin. ft. \$\mathrm{\text{MB}}\$\) Lin. ft./Bbl. Float: Type Depth D	•	•	,,,,	
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl. Centralizers: Quantity Plugs Top Btm.  Drill Pipe: Bbls/Lin. ft. DLYB Lin. ft./Bbl. Stage Collars  Annulus: Bbls/Lin. ft. Lin. ft./Bbl. Special Equip.  Bbls/Lin. ft. Lin. ft./Bbl. Dlsp. Fluid Type Lin. Amt. Bbls: Weight PPG  Perforations: From ft. to ft. Amt. Mud Type Lin. Amt. Bbls: Weight PPG  COMPANY REPRESENTATIVE CEMENTER  TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DBILL PIPE ANNULUS FUID PUMPED DATA  AM/PM DBILL PIPE ANNULUS FUID PUMPED BATA BATE Bbls Min.  Ballaci In Strip Int Surge  Lin. ft./Bbl. Stage Collars  Amit. Bbls: Weight PPG  Mud Type Lin. Amt. Bbls: Weight PPG  CEMENTER Amt. Bbls: Weight PPG  REMARKS  FUID PUMPED DATA  BATE Bbls Min.  Ballaci In Strip Int Surge  Lin. ft./Bbl. Stage Amid  Lin. ft./Bbl. Stage Amid  Lin. ft./Bbl. Stage Amid  Lin. ft./Bbl. Stage Amid  Lin. ft./Bbl. Stage Collars  Amit. Bbls: Weight PPG  Amt. Bbls: Weight PPG  Amt. Strip Int Surge  Lin. ft./Bbl. Stage Collars  Amit. Bbls: Weight PPG  Amt. Bbls: Weight PPG  FUID PUMPED DATA  Bate Balls Min. Balls: Weight PPG  Amt. Bbls: Weight P			Lin. ft./8bi	•
Drill Pipe: Bbls/Lin. ft	-	Bbls/Lin. It.	Lin. ft. /Bbl.	Centralizers: Quantity Pluga Ton Dun
Annulus: Bbls/Lin. ft. Lin. ft/Bbl. Special Equip.  Bbls/Lin. ft. Lin. ft/Bbl. Disp. Fluid Type Annt. Bbls: Weight PPG  Perforations: From ft. to ft. Annt. Mud Type Agg And Weight PPG  COMPANY REPRESENTATIVE CEMENTER ANNULUS FULID PUMPED DATA  AM/PM DRILL PIPE ANNULUS FULID PUMPED DATA  AM/PM DRILL PIPE ANNULUS FULID PUMPED BBls Min.  Bullacilian String Interpretation Special Spe	-	Bbls/lin. ft. 01422	Lin. (t /Bhl.	Stane Collars
Bobs/Lin. ft. Lin. ft./Bob. Disp. Fluid Type HSD Amt. Bobs: Weight PPG  Perforations: From 1. to 11. Amt. Mud Type HSD Amt. Bobs: Weight PPG  COMPANY REPRESENTATIVE CEMENTER AM PM DRILL PIPE ANNULUS FLUID PUMPED DATA  AM/PM DRILL PIPE ANNULUS FLUID PUMPED BOATA  AM/PM CASING ANNULUS FLUID PUMPED BOATA  Bobs Min. REMARKS  PROME PRESURES PSI FLUID PUMPED BOATA  Bobs Min. REMARKS  PROME PROME PPG  RATE BOBS MIN. REMARKS  PROME PPG  Amt. Bobs: Weight PPG  Weight PPG  Amt. Bobs: Weight PPG  Weight PPG  Amt. Bobs: Weight PPG  Weight PPG  Amt. Bobs: Weight PPG  Amt. Bobs: Weight PPG  Amt. Disp. Amt. Bobs: Weight PPG  Weight PPG  Amt. Bobs: We	•			
Perforations: From				
TIME PRESSURES PSI FLUID PUMPED DATA  AM/PM DRILL PIPE CASING ANNULUS FUID Pumped Per Time Period Bibls Min.  Bulland in Stra Mitz Situs  Ang Space  Bis Min.  Bulland in Stra Mitz Situs  Bis place  Bis Min.  Bulland in Stra Mitz Situs  Bis place  Bis Min.  Bulland in Stra Mitz Situs  Bis place  Bis Min.  Bulland in Stra Mitz Situs  Bis place  Bis pla	Perforations:			The state of the s
AM/PM DRILL PIPE CASING ANNULUS TOTAL FLUID Pumped Per Time Period Buls Min.  Bullottion 5 trig Mits, Situation 5	COMPANY REP	resentative		CEMENTER _ &L _
AM/PM DRILL PIPE CASING ANNULUS TOTAL FLUID Pumped Per Time Period Bus Min.  Bullacution 5 trig Nite; Set up  Bus SO 5/40 38/3  Bisplane w/ hig Fluid	TIME	PRESSURES PSI	FLUID PLIMPED DATA	
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8'4 My 50 9/40 3813 Displane a) Rig Much Wy 100 5/40 2433 Diplane W Big Much 8'4 My 505/40 354'				
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