

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

Prospect

CONFIDENTIAL

RECEIVED
 KANSAS CORPORATION COMMISSION
 SEP 27 2005
 CONSERVATION DIVISION
 WICHITA, KS

Operator: License # 33583
 Name: Admiral Bay (USA) Inc.
 Address: 14550 E Easter Ave., Ste. 1000
 City/State/Zip: Centennial, CO 80112
 Purchaser: Seminole Energy
 Operator Contact Person: Steven Tedesco
 Phone: (303) 327-7016
 Contractor: Name: McGown Drilling
 License: 5786
 Wellsite Geologist: None
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>5/27/05</u>	<u>6/2/05</u>	<u>waiting on pipe</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 099-23726-00-00
 County: Labette
 _____ NW _____ NW Sec. 24 Twp. 33S S. R. 18 East West
672 feet from S (circle one) Line of Section
646 feet from E (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE SE (NW) SW
 Lease Name: Johnson Trust Well #: 4-24
 Field Name: Wildcat
 Producing Formation: _____
 Elevation: Ground: 824 Kelly Bushing: 824
 Total Depth: 881 Plug Back Total Depth: _____
 Amount of Surface Pipe Set and Cemented at 20' Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from 873'
 feet depth to surface w/ 120 sx cmt.

Drilling Fluid Management Plan
 (Data must be collected from the Reserve Pit) ALT II WHM
7-17-07
 Chloride content _____ ppm Fluid Volume _____ bbls
 Dewatering method used _____
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]
 Title: Eric Wood Date: 9/3/05
 Subscribed and sworn to before me this 13th day of September,
 2005.
 Notary Public: Ltina M Irving

KCC Office Use ONLY

Letter of Confidentiality Received
 If Denied, Yes Date: 9-29-05
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: **Admiral Bay (USA) Inc.** Lease Name: **Johnson Trust** Well #: **4-24**
 Sec. **7** Twp. **33S** S. R. **19** East West County: **Labette**

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

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
 (Submit Copy)
 List All E. Logs Run:

**Compensated Neutron PEL Density
 Dual Induction Resistivity**

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Cherokee/Excello	308'	
V Shale	405'	
Mineral	418'	
Tebo	515'	
Drywood	706'	
Mississippian	780'	

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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	8-5/8	24	20	Class A		
Production	6.25	4-1/2	13.3	877'	OWC	120	2% gel

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				

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

TUBING RECORD	Size	Set At	Packer At	Liner Run
				<input type="checkbox"/> Yes <input type="checkbox"/> No

Date of First, Resumerd Production, SWD or Enhf.	Producing Method
	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		20			

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval



1530 S. SANTA FE, CHANUTE, KS 66720
620-431-9210 OR 800-457-8876

3 of 3 stages -

TICKET NUMBER 28634

LOCATION Shoyer

FIELD TICKET

Mulkey Summit
Upper Coal Array

DATE	CUSTOMER ACCT #	WELL NAME	CONTRACT	SECTION	TWP	RGE	COUNTY	FORMATION
5-31-04	1067	Johnson	4-24				CB	Upper Coal Array
CHARGE TO <u>Admiral Bay</u>				OWNER				
MAILING ADDRESS				OPERATOR <u>Jim Morris</u>				
CITY & STATE				CONTRACTOR				

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL AMOUNT
5102B	1	PUMP CHARGE 1300 HP. Combs		1800.00
5302	1	Acid SPOT		305.00
5702D	1	Acid Fracture		450.00
5310	1	Acid Pump Trailer		160.00
5111	1	Fracture Van		490.00
3107	300	15% HCL		390.00
4324	30	7/8" Ballscreens 20+10		67.80
5604	0	Fracture Valve (Three SUPPLIED)		—
5115	1	Well Injector		90.00
5107	1	Chem. Inj. Pump		94.00
1252	25	Gravel		875.00
1205A	7	Acid		177.45
1231	300 #	Free Gel		1365.00
1208	1	Breaker		164.25
1123	11000	City Water - (THAYGL)		140.80
5103	1	BLENDED & HANDLING Gel Frac TANK		N/C
5109	38	TON-MILES		NA
		STAND BY TIME		
5108	38	MILEAGE X 4 P/E/S/V		NA
5501F	4	WATER TRANSPORTS X 1		392.00
		VACUUM TRUCKS		
2101	4400	FRAC SAND 20/40 Sand		616.00
2102	1500	12/20 Sand		240.00
		CEMENT		
			SALES TAX	13.60
ESTIMATED TOTAL				7830.90

CUSTOMER or AGENTS SIGNATURE Jim Morris CIS FOREMAN Gay Wickel

CUSTOMER or AGENT (PLEASE PRINT) _____ DATE _____

RECEIVED
KANSAS CORPORATION COMMISSION
JUL 11 2007
CONSERVATION DIVISION
WICHITA, KS

205809

CONSOLIDATED OIL WELL SERVICE, INC.
 211 W. 14TH STREET, CHANUTE, KS 6720
 620-431-9210 OR 800-467-8676

3 of 3 stages

TICKET NUMBER 35069
 WELD TICKET REF # _____
 LOCATION Shagan
 FOREMAN Shagan

TREATMENT REPORT
 FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/24/04		Johnson West 4-24				KS
CUSTOMER <u>Armedal Boy</u>						
MAILING ADDRESS						
CITY						
STATE						
ZIP CODE						
			TRUCK #	DRIVER	TRUCK #	DRIVER
			476	Jeff		
			490	Mike		
			459	Dusty		
			482/794	Teresa		
			489/703	George		
			449	Charles		

WELL DATA

CASING SIZE <u>4 1/2</u>	TOTAL DEPTH <u>800</u>
CASING WEIGHT	PLUG DEPTH
TUBING SIZE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION <u>Mucky Summit</u>	
<u>Upper Coal Group</u>	<u>251-54 3 13</u>
	<u>308-11 3 13</u>
	<u>20</u>

TYPE OF TREATMENT
Acid Spurt/Balls/Water Flood

CHEMICALS

<u>Fracture</u>	<u>15% HCl</u>
<u>Breaker</u>	
<u>Surfactant</u>	
<u>Acid</u>	

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
<u>PAID</u>	<u>40</u>	<u>4.5/12</u>			<u>673-1500</u>	BREAKDOWN <u>1607</u>
<u>submerse shut down & release</u>						START PRESSURE <u>800</u>
<u>PAID</u>	<u>40</u>	<u>4.5/12</u>			<u>1600-1785</u>	END PRESSURE <u>730</u>
<u>20/40</u>			<u>.25-.5</u>	<u>940#</u>		BALL OFF PRESS <u>950</u>
<u>20/40</u>			<u>.5-.75</u>	<u>1260</u>		ROCK SALT PRESS <u>-</u>
<u>12/20</u>			<u>.25-.5</u>	<u>1306</u>		ISIP <u>550</u>
<u>12/20</u>			<u>.5-.75</u>	<u>1306</u>		5 MIN <u>267</u>
<u>FLUSH. BALLS (575)</u>					<u>1600-2100</u>	10 MIN <u>264</u>
<u>20/40</u>			<u>.25-.5</u>	<u>1000#</u>	<u>1550</u>	15 MIN
<u>20/40</u>			<u>.75</u>			MIN RATE <u>4</u>
<u>12/20</u>			<u>.25</u>	<u>200#</u>	<u>1480</u>	MAX RATE <u>12.5</u>
<u>Ben out of water - NO FLUSH</u>						DISPLACEMENT <u>4.8</u>

REMARKS: Wellhead set 200 gal (100 gal 15%)
Spurt acid on perf. Breakdown & stage. Ben 4 30m
of 200 gal 10% + 200 balls.
release and overflush by 10-365.
Acid Job.
acid 300 gal / water 30 / balls 20
4.8 Bbl = 730#
 15 IP 504
 10m 394
 200 gal 328

AUTHORIZATION Jim Morris TITLE _____ DATE JUL 11 2007
 KANSAS CORPORATION COMMISSION
 CONSERVATION DIVISION
 WICHITA, KS

LINEAR PLOT

Prepared by: Consolidated Oil Well Services

Company Name: Admiral Bay

Well Name: Johnson Trust #4-24

Field: Mound Valley

Formation: Summit/ Mulky

County: LB

State: KS

Job Date: 05/31/06

Comments: Sand Frac

Perfs 281-84, 308-11, 26 shts

Fluids: 365 bbsl. , 15#, mxflo, biocide

Proppants: 4400# 20/40, 1500# 12/20, 10 balls

Average Rate: 10

Average STP: 1400

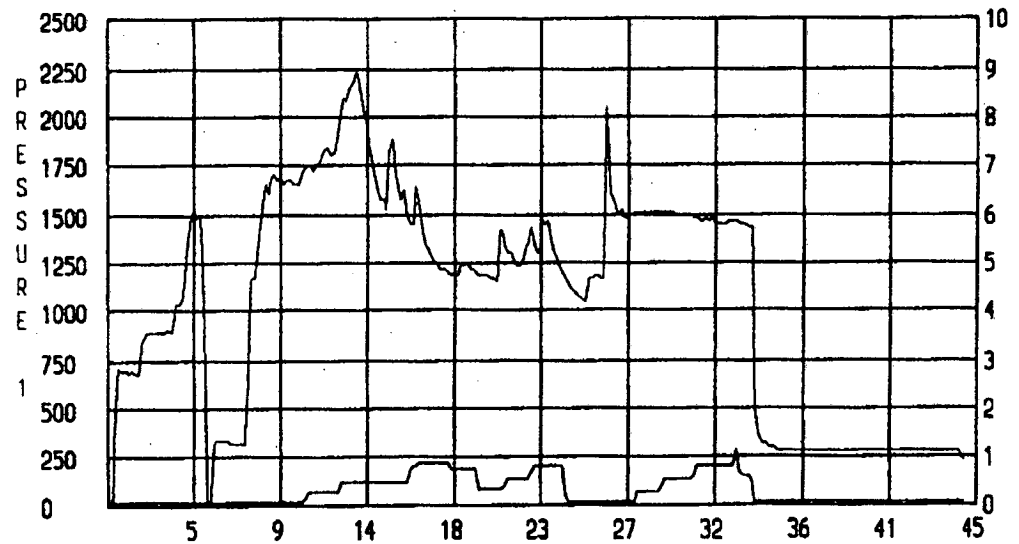
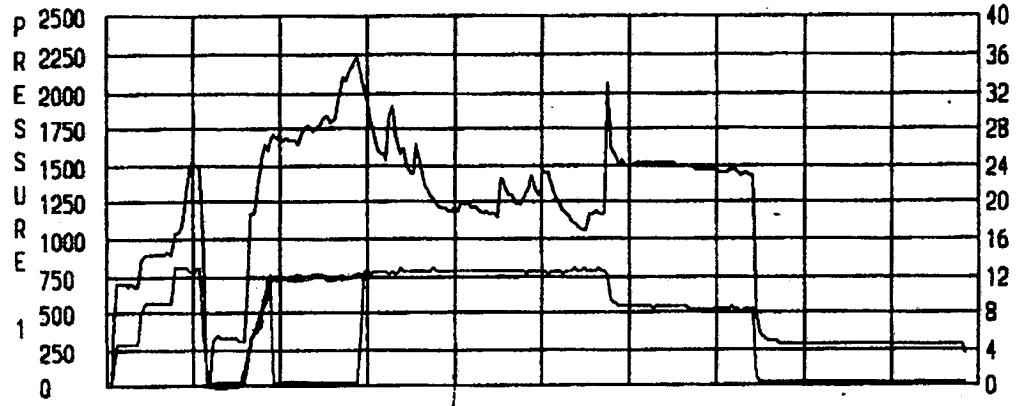
Tubing:

Casing: 4 1/2

Packer:

Filename: 06031706

Pressure Pres: 4000



Elapsed Time (min), Start at 18:06:41

TOTAL RATE

CONC.

LINEAR PLOT

Prepared by: Consolidated Oil Well Services

Company Name: Admiral Bay

Well Name: Johnson Trust #4-24

Field: Mound Valley

Formation: Summit/ Mulky

County: LB

State: KS

Job Date: 05/31/06

Comments: Acid Balloff

Perfs 281-84, 308-11, 26 shts

spt 100 gal. 15% HCl

Fluids: 30 bbls,

Proppants: 200 gal 15% , 20 ballsealers

Average Rate: 4.5

Average STP: 800

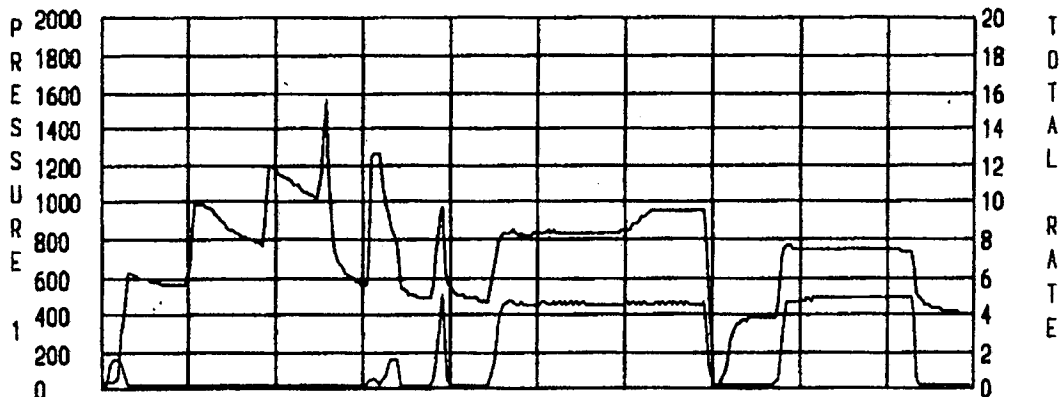
Tubing:

Casing: 4 1/2

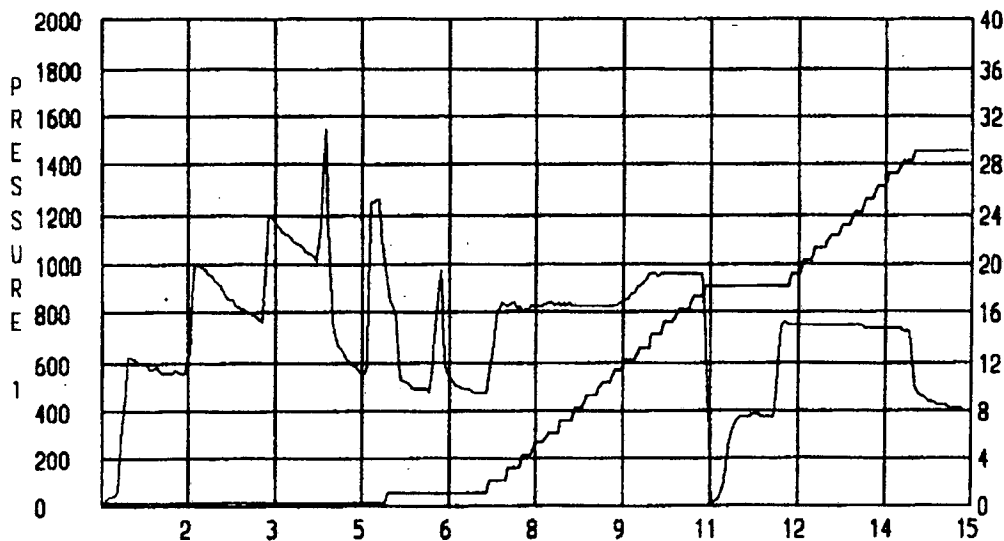
Packer:

Filename: 06031706

Closure Pres: 4000



TOTAL RATE



TOTAL PUMPED

Elapsed Time (min), Start at 17:37:08

JUL 11 2007

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CONSERVATION DIVISION
WICHITA, KS



**CONSOLIDATED
OIL WELL
SERVICES**
AN INFINITY COMPANY

2 of 3 stages

1530 S. SANTA FE, CHANUTE, KS 66720
620-431-9210 OR 800-467-8676

TICKET NUMBER 28633

LOCATION Flayer

FIELD TICKET

DATE	CUSTOMER ACCT #	WELL NAME	CITY/TOWNSHIP	SECTION	TWP	RGE	COUNTY	FORMATION
5/31/06	1061	Johnson Trust 4-24					CB	Middle Coal
CHARGE TO				OWNER				
MAILING ADDRESS				OPERATOR				
CITY & STATE				CONTRACTOR				

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL AMOUNT
5102	1	PUMP CHARGE 1300 HP Combs		2150.00
5302	1	Acid Spill		305.00
51020	1	Acid 7 Gallons		450.00
5310	1	Acid Pul. 1500 lbs		160.00
5111	1	FRAC VAN		490.00
3107	300	15% HCL 300+		390.00
4326	20	7/8" Balls 20+		45.00
5604	0	Fract. Value: — They SUPPLIED.		
5115	1	Ball Injection Machine		90.00
5107	1	Chem. Disp. Pump		94.00
1252	24	Mudflo		840.00
1205A	7	Procede		177.45
1231	300	Frac Gel		1365.00
1208	1	Gel Breaker		164.25
5103	1	BLENDED & HANDLING Gel Frac Tank		265.00
5109	38	TON-MILES		NA
5108	38	STAND BY TIME		
5501F	2	MILEAGE X # P/I/S/V		NA
2101	3300 #	WATER TRANSPORTS		196.00
2102	1200 #	VACUUM TRUCKS		
		FRAC SAND 20/40		462.00
		12/20		192.00
		CEMENT		
		6.55% SALES TAX		2.96

Rev 11/27/00

ESTIMATED TOTAL 7838.86

CUSTOMER or AGENTS SIGNATURE Jim Morris CIS FOREMAN _____

CUSTOMER or AGENT (PLEASE PRINT) _____ DATE _____ RECEIVED KANSAS CORPORATION COMMISSION

205808

JUL 11 2007

CONSERVATION DIVISION
WICHITA, KS

CONSOLIDATED OIL WELL SERVICES, INC.
 211 W. 14TH STREET, CHANUTE, MO 64720
 620-431-9210 OR 800-467-8676

2 OF 3 stages

TICKET NUMBER 35049
 FIELD TICKET REF # 28653
 LOCATION Shagen
 FOREMAN Billy W.

TREATMENT REPORT
 FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-31-06		Johnson Tract 4-24				LTB
CUSTOMER			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
			DRIVER			
			TRUCK #			
			DRIVER			
			TRUCK #			
			DRIVER			

WELL DATA

CASING SIZE	4 1/2	TOTAL DEPTH	870'
CASING WEIGHT		PLUG DEPTH	600'
TUBING SIZE		PACKER DEPTH	
TUBING WEIGHT		OPEN HOLE	2' 9"
PERFS & FORMATION	403-05		
	413-16		
	3' 13"		

TYPE OF TREATMENT
 Acid Spot / Ball Off / Sand Frac

CHEMICALS

Pre Gel	15% HCl
Thickener	
Wax Flo	
Hydrate	

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
Pad	53	4-8-10-12.5			1326-1900	BREAKDOWN 1319
20/40		12.5	.12		1947-2000	START PRESSURE 1950
20/40		12.5	.25		2004-2200	END PRESSURE 1325
FLUSH - Release - Flow Back						BALL OFF PRESS 2800
Pad	20	0-10			200-1605	ROCK SALT PRESS
20/40		10.3	.25		125-1946	ISIP 857
		10.3	.12-.25		194-1878	5 MIN 485
		10.3	.15		1860-185	10 MIN 434
		10.3	.25-.25		185-200	15 MIN
12/20		10.3	.12-.25		194-1908	MIN RATE 4
		10.3	.25-.15		1808-1610	MAX RATE 12.5
		10.3	.75		1620-1576	DISPLACEMENT 7
FLUSH	32	10.3				
TOTAL	440 BBL'S			4800 #		

REMARKS: Wheline set RSP.
 Spot 100 gal 15% on Plugs. Breakdown + stage set.
 Pump rate 4 BPM down 200 gal 15% w/ 20 BBL'S.
 Release - one plug by 13 BBL'S.
 TOTAL acid 300 gal / water 33 / BBL'S. 20.

AUTHORIZATION Jim Morris TITLE _____ DATE _____ RECEIVED

KANSAS CORPORATION COMMISSION

JUL 11 2007

CONSERVATION DIVISION
 WICHITA, KS

LINEAR PLOT

Prepared by: Consolidated Oil Well Services

Company Name: Admiral Bay

Well Name: Johnson Trust #4-24

Field: Mound Valley

Formation: Middle Coal Group

County: LB

State: KS

Job Date: 05/31/06

Comments: Acid spot 100 gal

Perfs 403-05, 443-46, 22 shts

Fluids: 33 bbls

Proppants: 200 gal 15% HCl, 20 ballsealers

Average Rate: 4

Average STP: 1500

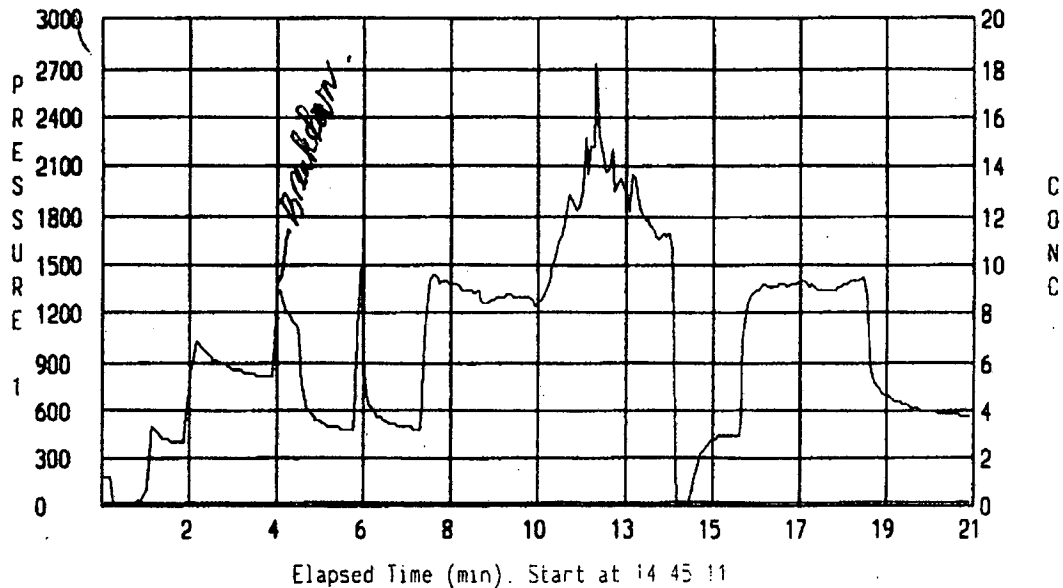
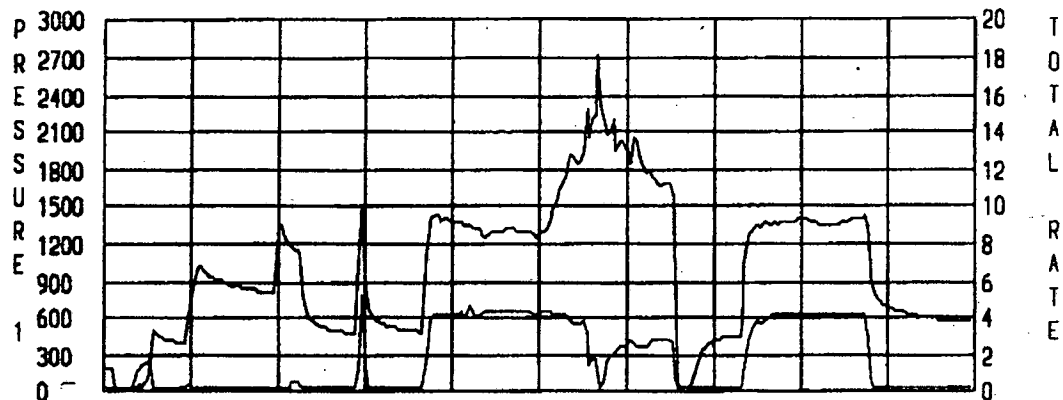
Tubing:

Casing: 4 1/2

Packer:

Filename: 06031706

Closure Pres: 4000



TOTAL RATE

CONC

Elapsed Time (min). Start at 14 45 11

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CONSERVATION DIVISION
WICHITA, KS
JUL 11 2007

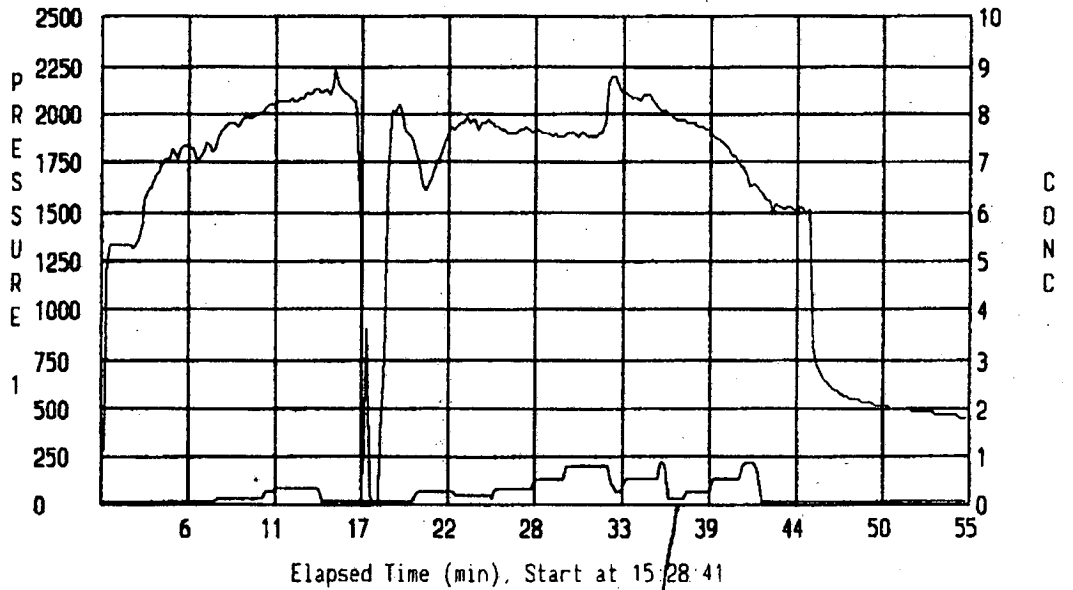
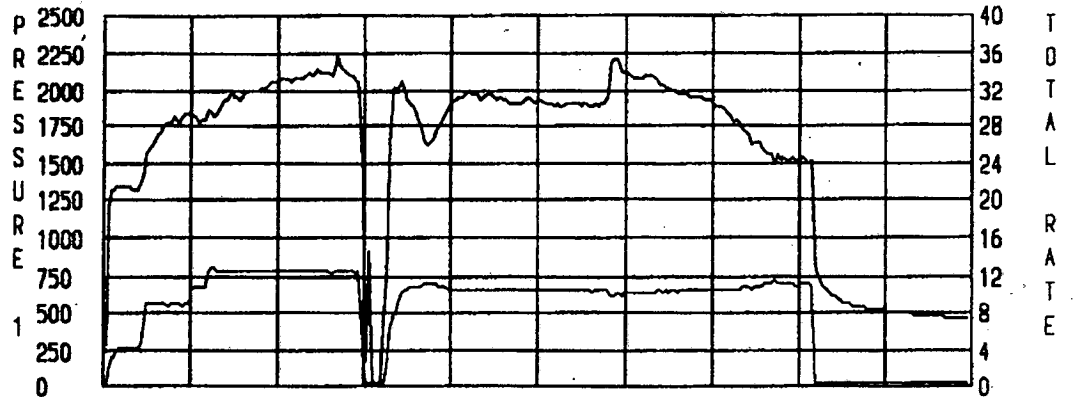
Prepared by: Consolidated Oil Well Services

Company Name: Admiral Bay
Well Name: Johnson Trust #4-24
Field: Mound Valley
Formation: Middle Coal Group
County: LB
State: KS
Job Date: 05/31/06
Comments: Sand Frac

Perfs 403-05, 443-46, 22 shts

Fluids: 440 bbls, 15# gel, maxflo, biocide
Proppants: 3300# 20/40, 1200# 12/20
Average Rate: 10
Average STP: 1750
Tubing:
Casing: 4 1/2
Packer:
Filename: 06031706
Closure Pres: 4000

LINEAR PLOT



Elapsed Time (min). Start at 15:28:41

12/20 start

RECEIVED
KANSAS CORPORATION COMMISSION
JUL 11 2007
CONSERVATION DIVISION
WICHITA, KS

3:30 start

$\frac{15}{10}$ $\frac{15}{10}$

(2) 5

STAGE	Bbl's Pumped	Inj Rate	Proppant PPG	Sand/Stage	PSI	PSI	PSI
17AD	8	4			1326	1332	
	26	8			1650	1803	
	10	10.4			1797		
	10	12.5			1900		
20/40	38	12.3	.12		1947	1998	2040
20/40	45	12.3	.25		2014	2092	2117
FLUSH	27		0		2100	2040	
X	Shutdown - release + flow back.						
X		0-10			2015	1605	
20/40	27	10.6	.25		1940	1755	1946
20/40	24	10.2	.12		1940	1933	1916
20/40	24	10.3	.25	3300#	1884	1908	1878
20/40	20		.15		1860	1885	
20/40	25	10.2	.175 - .125 - .5		1875	2184	2087
* 12/20	12	10.2	.12		1944	1928	
	15		.125		1908	1865	
	20		.15	1200#	1810	1605	
	18		.175		1620	1596	
FLUSH	32				1530	1484	1500

Totals

Water 4410

Balls 0

Sand

3300#
1200#

151P 867
5M 485
10 m.

RECEIVED
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CONSERVATION DIVISION
WICHITA, KS



CONSOLIDATED
OIL WELL
SERVICES
AN INFINITY COMPANY

1530 S. SANTA FE, CHANUTE, KS 66720
620-431-9210 OR 800-467-8676

1 of 3 stages

KS04901000
JT4-24
Mound Valley
TICKET NUMBER 28632

LOCATION Thayer

FIELD TICKET

DATE 5/31/04	CUSTOMER ACCT # 1061	WELL NAME Johnson Trust #24	OTR/OTR	SECTION	TWP	RGE	COUNTY LB	FORMATION Riverton?
CHARGE TO Admiral Bay				OWNER				
MAILING ADDRESS				OPERATOR Jim Morris				
CITY & STATE				CONTRACTOR				

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	UNIT PRICE	TOTAL AMOUNT
5102B	1	PUMP CHARGE 1300 HP Combo.		2400-
5302	1	Acid Spot		460-
5702D	1	Acid Ball off w/ Frac Pump.		NC
5310	1	Acid POP MAILER.		160-
5111	1	FILTEVAN		650-
3107	400	15% HCL		520.00
4326	8	7/8" Ballsealers.		18.08
5604	0	Frac Valve - (TIE-INS)		NA.
5115	1	Ball Injector Machine		90-
5107	1	Chemical Int. Pump.		94-
1252	24	MAFLO		840.00
1205A.	7	BIOCIDE		177.45
1231	300#	Frac Gel		1365.00
1208	1	Gel Breaker.		164.25
5103	1	BLENDED & HANDLING Gel Frac Tanks.		265.00
5109	38	TON-MILES		275.00
5108	38	STAND BY TIME		
5501F	38	MILEAGE x 4 P/I/S/V		478.80
		WATER TRANSPORTS X 1		196.00
		VACUUM TRUCKS		
2101	2700#	FRAC SAND 20/40		318.-
2102.	800#	12/20		128.-
		CEMENT		
			6.55 SALES TAX	1.18
ESTIMATED TOTAL				8660.76

Rev'n 2708

CUSTOMER or AGENTS SIGNATURE Jim Morris FOREMAN

Gary Wickel

CUSTOMER or AGENT (PLEASE PRINT)

DATE

RECEIVED

KANSAS CORPORATION COMMISSION

205807

JUL 11 2007

CONSERVATION DIVISION
WICHITA, KS

CONSOLIDATED OIL WELL SERVICES, INC.
 211 W. 14TH STREET, CHANUTE, KS 66720
 620-431-9210 OR 800-467-8676

1 of 3 stages

TICKET NUMBER 35070
 FIELD TICKET REF # 28632
 LOCATION Thayer
 FOREMAN Sam Wi
 K809901006
 TT4-24 Mound Valley

TREATMENT REPORT
 FRAC & ACID

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5/31/06		Johnson Trust 4-24				LB
CUSTOMER						
Admiral Bay						
MAILING ADDRESS						
CITY STATE ZIP CODE						

TRUCK #	DRIVER	TRUCK #	DRIVER
476	Jeff		
450	Andrew		
459	Dusty		
482/194	Teresa		
489/103	George		
449	Charise		

WELL DATA

CASING SIZE <u>4 1/2</u>	TOTAL DEPTH <u>800</u>
CASING WEIGHT	PLUG DEPTH <u>784'</u>
TUBING SIZE	PACKER DEPTH
TUBING WEIGHT	OPEN HOLE
PERFS & FORMATION	
<u>Fluventon</u>	<u>770-72 9 SHTS</u>

TYPE OF TREATMENT
Acid Snot/Ball Off/Salt Free

CHEMICALS

<u>Free Gel</u>	<u>15% HCL</u>
<u>Breaker</u>	
<u>Mapplo</u>	
<u>Thicide</u>	

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
<u>PAD</u>	<u>50</u>	<u>4-8-10</u>			<u>1372-1575-1750</u>	<u>BREAKDOWN 1260</u>
<u>20/40</u>			<u>.10</u>	<u>50%</u>	<u>2200</u>	<u>START PRESSURE 1525</u>
<u>PAD</u>		<u>10-8</u>			<u>2500</u>	<u>END PRESSURE 1758</u>
<u>release - back to clean up.</u>					<u>0</u>	<u>BALL OFF PRESS 1758</u>
<u>PAD - 100 gal HCL.</u>		<u>5/3</u>			<u>2650-2600</u>	<u>ROCK SALT PRESS -</u>
<u>Displace to Perfs + Soak 10 mins.</u>						<u>ISIP 1234.</u>
<u>Pad.</u>		<u>4</u>			<u>1922.</u>	<u>5 MIN 849</u>
		<u>8-9</u>			<u>2470-2510</u>	<u>10 MIN 745</u>
<u>20/40</u>		<u>9</u>	<u>.10</u>		<u>2580-2520</u>	<u>15 MIN -</u>
<u>20/40</u>		<u>9</u>	<u>.125-.15</u>		<u>1950-1800</u>	<u>MIN RATE 4</u>
<u>20/40</u>			<u>.75</u>		<u>1750-1735</u>	<u>MAX RATE 12</u>
<u>12/20</u>			<u>.12</u>		<u>1875-1900</u>	<u>DISPLACEMENT 12.2</u>
<u>12/20</u>			<u>.25</u>		<u>1870-2500</u>	<u>-3</u>
<u>FLUSH</u>	<u>14.</u>				<u>3500#.</u>	<u>- Screen out on FLUSH.</u>

REMARKS: over 1.5

R/O on well. Hold safety meeting. Spot 100 gal 15% HCL on Perfs. Breakdown at stage 1 soak. Sat. 4 AM. Rate run 200 gal 15% w/ 8 152H.S.

TOTAL acid 300 gal. / water 28 / balls 8

AUTHORIZATION Sam Morris TITLE _____ DATE _____ RECEIVED _____
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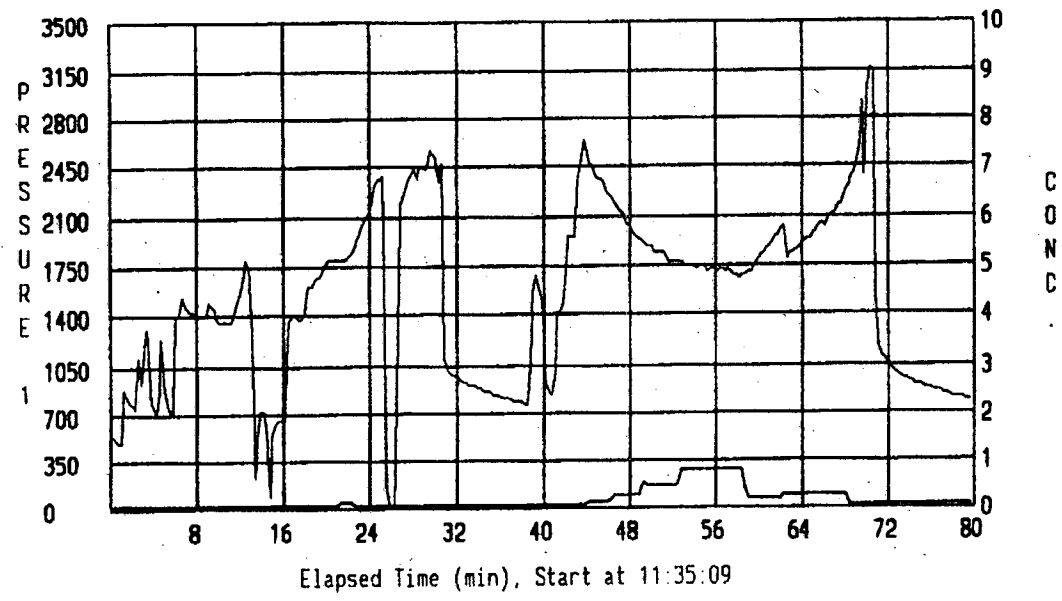
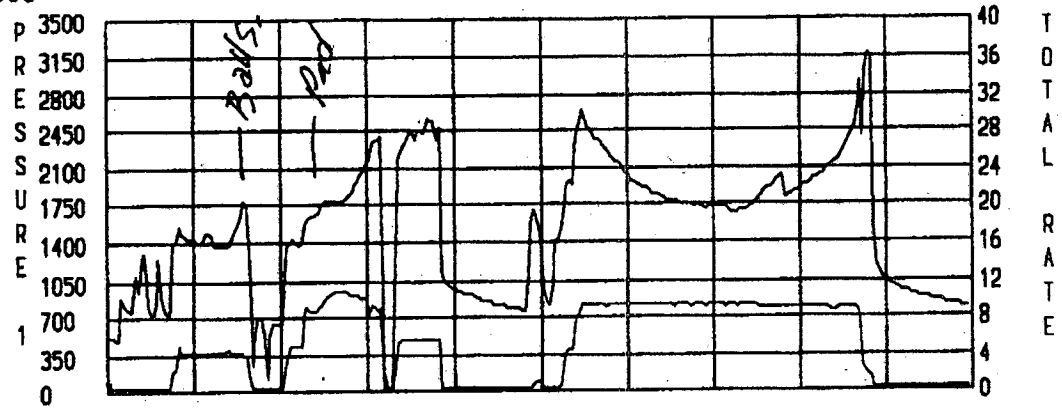
CONSERVATION DIVISION

LINEAR PLOT

Prepared by: Consolidated Oil Well Services

Company Name: Admiral Bay
 Well Name: Johnson Trust #4-24
 Field: Mound Valley
 Formation: Riverton
 County: LB
 State: KS
 Job Date: 05/31/06
 Comments: Acid spot/balloff/sandfrac

Perfs 770-72, 9 shts. / spot 100 gal 15
 200 gal. balloff, 8 balls, 100 gal off
 Fluids: 372 bbls, 15# gel, maxflo, biocide
 Proppants: 2700# 20/40, 800# 12/20, 100 gal. HCl
 Average Rate: 9
 Average STP: 1750
 Tubing:
 Casing: 4 1/2
 Packer: BP @ 784'
 Filename: 06031706
 Closure Pres: 4000



JOHNSON

KS09901006
JT4-24
Mound Valley

STIMULATION DESIGN

WELL - JOHNSON TRUST 4-24
FIELD - MOUND VALLEY

FORMATION(S) - COAL AND SHALE STRINGERS - (MISSISSIPPIAN ALREADY OPEN)
PERFORATIONS - 1ST STAGE 769 - 772, 2ND STAGE 443 - 446, 401 - 404, 3RD STAGE 308 - 310, 281 - 283
OF SHOTS - 4 SHOTS PER FOOT

SET RETRIEVABLE PLUG OVER MISSISSIPPIAN ZONE AT 784'
PERFORATE BOTTOM ZONE AND TREAT DOWN CASING. SET RETRIEVABLE BRIDGE PLUGS, PERFORATE UPPER ZONES AND TREAT DOWN CASING.
RETRIEVE BRIDGE PLUGS AND CLEAN WELL TO TD. SET UP WELL TO PRODUCE ALL ZONES COMMINGLED.
THREE STAGE FRAC TREATMENT TO BE COMMINGLED UPON COMPLETION
ADJUST RATE AND SAND CONCENTRATION TO PUMP ENTIRE FLUID VOLUME
FRAC RIVERTON FIRST, SET PLUG AT 500'. FRAC MINERAL AND V SHALE IN SECOND STAGE, SET PLUG AT 380', FRAC EXCELLO AND SUMMIT COALS

RIVERTON			VOLUME	SAND	SAND	RATE	SAND	CUM	CUM
STAGE	DESCRIPTION	FLUID	BBLS	MESH	CONC	BPM	LBS	BBLS	SAND #
1	SPOT ACID ON PERFS	15% HCL	100 gallons					10	
2	ACID BREAKDOWN	10#/GAL GUAR	10						
3	SHUT DOWN, TAKE ISIP								
4	PUMP PAD	10#/GAL GUAR	50			12-15		60	
5	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.25	12-15	210	80	210
6	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.375	12-15	315	100	525
7	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.50	12-15	420	120	945
8	PUMP SAND STAGE	10#/GAL GUAR	40	20/40	.75	12-15	1260	180	2205
9	PUMP SAND STAGE	10#/GAL GUAR	20	12/20	0.125	12-15	105	180	105
10	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	0.25	12-15	420	220	525
11	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	.375	12-15	630	260	1050
12	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	.50	12-15	840	300	1470
13	PUMP FLUSH	WATER	50					350	
TOTAL DIRTY VOLUME			340				# SAND 3675	4200	

SET PLUG AND PERFORATE

MINERAL AND V SHALE			VOLUME	SAND	SAND	RATE	SAND	CUM	CUM
STAGE	DESCRIPTION	FLUID	BBLS	MESH	CONC	BPM	LBS	BBLS	SAND #
1	SPOT ACID ON PERFS	15% HCL	100 gallons					10	
2	ACID BREAKDOWN AND BALL OUT	10#/GAL GUAR	100 gallons						
3	FLOW BALLS OFF PERFORATIONS		10						
4	PUMP PAD	10#/GAL GUAR	50			12-15		60	
5	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.25	12-15	210	80	210
6	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.375	12-15	315	100	525
7	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.50	12-15	420	120	945
8	PUMP SAND STAGE	10#/GAL GUAR	40	20/40	.75	12-15	1260	180	2205
9	PUMP SAND STAGE	10#/GAL GUAR	20	12/20	0.125	12-15	105	180	105
10	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	0.25	12-15	420	220	525
11	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	.375	12-15	630	260	1050
12	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	.50	12-15	840	300	1470
13	PUMP FLUSH	WATER	50					350	
TOTAL DIRTY VOLUME			350				# SAND 3675	4200	

DROP BALLS DURING JOB TO
DIVERT FRAC TREATMENT

SET PLUG AND PERFORATE

EXCELLO AND SUMMIT			VOLUME	SAND	SAND	RATE	SAND	CUM	CUM
STAGE	DESCRIPTION	FLUID	BBLS	MESH	CONC	BPM	LBS	BBLS	SAND #
1	SPOT ACID ON PERFS	15% HCL	100 gallons					10	
2	ACID BREAKDOWN AND BALL OUT	10#/GAL GUAR	100 gallons						
3	FLOW BALLS OFF PERFORATIONS		10						
4	PUMP PAD	10#/GAL GUAR	50			12-15		60	
5	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.25	12-15	210	80	210
6	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.375	12-15	315	100	525
7	PUMP SAND STAGE	10#/GAL GUAR	20	20/40	.50	12-15	420	120	945
8	PUMP SAND STAGE	10#/GAL GUAR	40	20/40	.75	12-15	1260	180	2205
9	PUMP SAND STAGE	10#/GAL GUAR	20	12/20	0.125	12-15	105	180	105
10	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	0.25	12-15	420	220	525
11	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	.375	12-15	630	260	1050
12	PUMP SAND STAGE	10#/GAL GUAR	40	12/20	.50	12-15	840	300	1470
13	PUMP FLUSH	WATER	40					340	
TOTAL DIRTY VOLUME			340				# SAND 3675	4200	

DROP BALLS DURING JOB TO
DIVERT FRAC TREATMENT

SHUT IN WELL OVERNIGHT TO ALLOW GEL TO BREAK.
FLOW BACK, RETRIEVE PLUGS, CLEAN TO BOTTOM, RUN TUBING AND RODS WITH PC PUMP SET AT APPROX 850'

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CONSERVATION DIVISION
WICHITA, KS