

#### Kansas Corporation Commission Oil & Gas Conservation Division

122297

Form ACO-1

June 2009

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 North / South Line of Section
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 #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet  Multiple Stage Cementing Collar Used? Yes No  If yes, show depth set: Feet  If Alternate II completion, cement circulated from: sx cmt
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Original Total Depth: Conv. to ENHR	Chloride content: ppm Fluid volume: bbls  Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	QuarterSec TwpS. R East West
ENHR Permit #:	County: Permit #:
GSW Permit #:	
Spud Date or Date Reached TD Completion Date or Recompletion Date  Recompletion Date	

#### **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							
Letter of Confidentiality Received							
Date:							
Confidential Release Date:							
Wireline Log Received							
Geologist Report Received							
UIC Distribution							
ALT I II III Approved by: Date:							

Side Two



Operator Name:			Lease Name: Well #:					
Sec Twp	S. R	East West	County:					
time tool open and clo	osed, flowing and shu es if gas to surface te	d base of formations pen t-in pressures, whether s st, along with final chart( well site report.	hut-in pressure rea	ched static level,	hydrostatic press	sures, bottom h	ole temperature, fluid	
Drill Stem Tests Taker (Attach Additional		Yes No		og Formatio	n (Top), Depth ar	nd Datum	Sample	
Samples Sent to Geo	ological Survey	☐ Yes ☐ No	Nam	е		Тор	Datum	
Cores Taken Electric Log Run Electric Log Submitte (If no, Submit Copy	d Electronically	Yes No Yes No Yes No						
List All E. Logs Run:								
		Report all strings set-o		ermediate, producti	<u> </u>			
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	
		ADDITIONAL	. CEMENTING / SQL	 JEEZE RECORD				
Purpose:  —— Perforate  —— Protect Casing	Depth Top Bottom	Type of Cement	# Sacks Used	Sacks Used Type and Percent Additives				
Plug Back TD Plug Off Zone								
	DEDEODATI	ON DECORD - Daider Blue	- O-4/T	Acid Fro	cture, Shot, Cemen	t Causana Dagar		
Shots Per Foot	Specify I	ON RECORD - Bridge Plug Footage of Each Interval Per	forated		mount and Kind of Ma		Depth	
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or EN	HR. Producing Meth		Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls. Gas	Mcf Wat	er B	bls.	Gas-Oil Ratio	Gravity	
DISPOSITI	ON OF GAS:		METHOD OF COMPLE	ETION:		PRODUCTIO	ON INTERVAL:	
Vented Solo		Open Hole	Perf. Dually	Comp. Cor	nmingled			
(If vented, Su	bmit ACO-18.)	Other (Specify)	(Submit )	4CO-5) (Sub	mit ACO-4)		_	

Form	ACO1 - Well Completion
Operator	Darrah, John Jay, Jr.
Well Name	Rathbun 7
Doc ID	1122297

#### Tops

Name	Тор	Datum		
Severy Shale	2369	-624		
Topeka	2407	-662		
Oread	2590	-845		
Heebner	2674	-929		
Douglas	2703	-958		
Douglas Sand	2713	-968		
Brown Lime	2790	-1045		
Lansing	2808	-1063		
Lansing B	2835	-1090		
Lansing G	2911	-1166		
Base KC	3115	-1370		
Simpson	3129	-1384		
Arbuckle	3189	-1444		
TD	3192	-1447		

None

E-logs ran:

Samples examined from 2300' to TD. 1 foot drill time kept from 2300' to TD. Ħ.

3197' (-1447)

Geologist Seth Evenson on location 4:35 am January 27th, 2013 @ 2649' MD.

Field: Geneseo-Edwards Contractor: Mallard JV

Drilling Complete: January 29th, 2013

Spud date: Jamuary 23<sup>rd</sup>, 2013



**Geologic Report** 

#7 Rathbun For the

15-053-21282

840' FSL & 1840' FEL Ellsworth County KS Sec 16 T17S R8W

All measurements taken from KB.

GL: 1740'

KB: 1745'

\*Please note depth correction +5 feet to all sub-sea datums.

Sample Tops:

\*Note: All tops are in measured depth below rotary table. All sub-sea datums are corrected up five feet.

Severy	2369' (-619)	Lansing B zn	2835' (-1085)
Topeka	2407' (-657)	Base B zn	2847' (-1097)
Oread	2590' (-840)	Lansing G zn	2911' (-1161)
Heebner	2674' (-924)	Base G zn	2941' (-1191)
Douglas sh	2703' (-953)	ВКС	3142' (-1392)
Douglas snd	2713' (-963)	Simpson	3156' (-1406)
Brown Lm	2790' (-1040)	Arbuckle	3189' (-1439)
Lansing	2808' (-1058)	RTD	3197' (-1447)

#### **Structural Comparison:**

	#7 Rathbun SW/NE/SW/SE 16-17S-8W	#3 Rathbun N2/SE/SE 16-17S-8W	#5 Rathbun SE/NW/SE 16-17S-8W
Topeka	-657	-645 (-12)	NA
Oread	-840	-823 (-17)	NA
Heebner	-924	-903 (-21)	NA
Douglas	-953	-931 (-22)	NA
Brown Lm	-1040	-1025 (-15)	-1056 (+16)
Lansing	-1058	-1046 (-12)	-1076 (+18)
Lansing B	-1085	-1076 (-9)	-1103 (+18)
ВКС	-1392	-1362 (-30)	-1387 (-5)
Simpson	-1406	-1375 (-31)	-1401 (-5)
Arbuckle	-1439	-1432 (-7)	-1436 (-3)

### **Formation Tests:**

<u>DST #1</u>	<u>DST #2</u>	DST #	<u>‡3</u>		
Lansing B	Arbuckle	Arbuckle			
2825'-2852'	3088'-3197'	3059	'-3197'		
15-30-30-60	MIS-RUN	15-30-45-60			
	Packer failure				
IHP 1374#		IHP	1532#		
IED 19#_20#		IFP	33#-178#		

ISIP 722#
FFP 21#-28#
FSIP 851#
FHP 1350#

Rec: GTS @ final shut-in. Gas was highly flammable & burned with a bright orange flame.

12' mud

Rec:

2370' mud

Rec:

**ISIP** 

**FFP** 

**FSIP** 

**FHP** 

483' HGCMO (40% oil) 252' HGCOM (18% oil) 64' HGC&SOCM (10% oil)

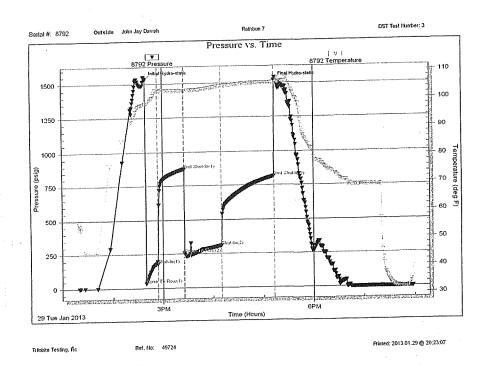
878#

818#

1518#

254#-309#

126' SG&SOCM (13% oil)



After being denied approval to drill the primary location for the #7 Rathbun within the draw; an alternate location was picked outside of the draw on the west end of the lease. While this location came in low compared to surrounding wells; sufficient enough quantities of gassy, oil cut mud were recovered by DST #3 to warrant casing the well for production. The

were producing from much lower datums. Furthermore evidence from sub-surface and seismic work may indicate that the #7 Rathbun was drilled into a structural nose of the Arbuckle, which hopefully will help funnel oil into the vicinity for years to come.

Once again, as in the #11 Kratzer, the B zone of the Lansing was drill stem tested due to the presence of gas & oil in samples. Again, no oil was recovered & gas recovery was very much less; with gas only reaching the surface just as the tool was being closed for the final shut-in period. With such a weak flow of gas, and at a much lower datum it is very doubtful that the B zone will ever produce commercial quantities of gas in the #7 Rathbun. That said, the test does help prove the extent and potential for the B zone to hold commercial gas reserves in the North Geneseo-Edwards field.

Pipe strap after final DST revealed the drill string to be five feet shorter than the geolograph reading. Bo Darrah stayed on location and made sure  $5\,\%$  production casing was ran & set at 3185', 7 feet off bottom (new TD 3192'); with the plug down and holding at 9:15 am on January  $30^{th}$ , 2013.

Respectfully submitted by,

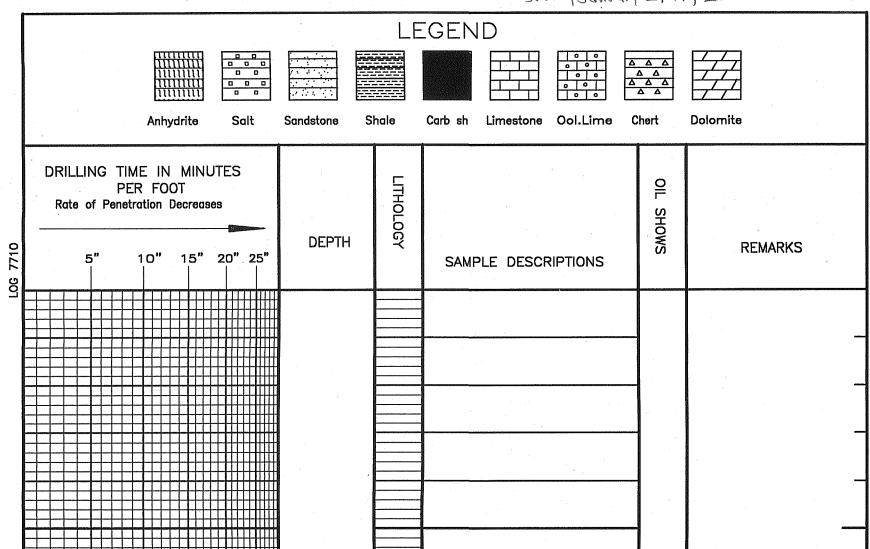
Seth Evenson

Geologist

Darrah Oil Company

June 19<sup>th</sup>, 2013

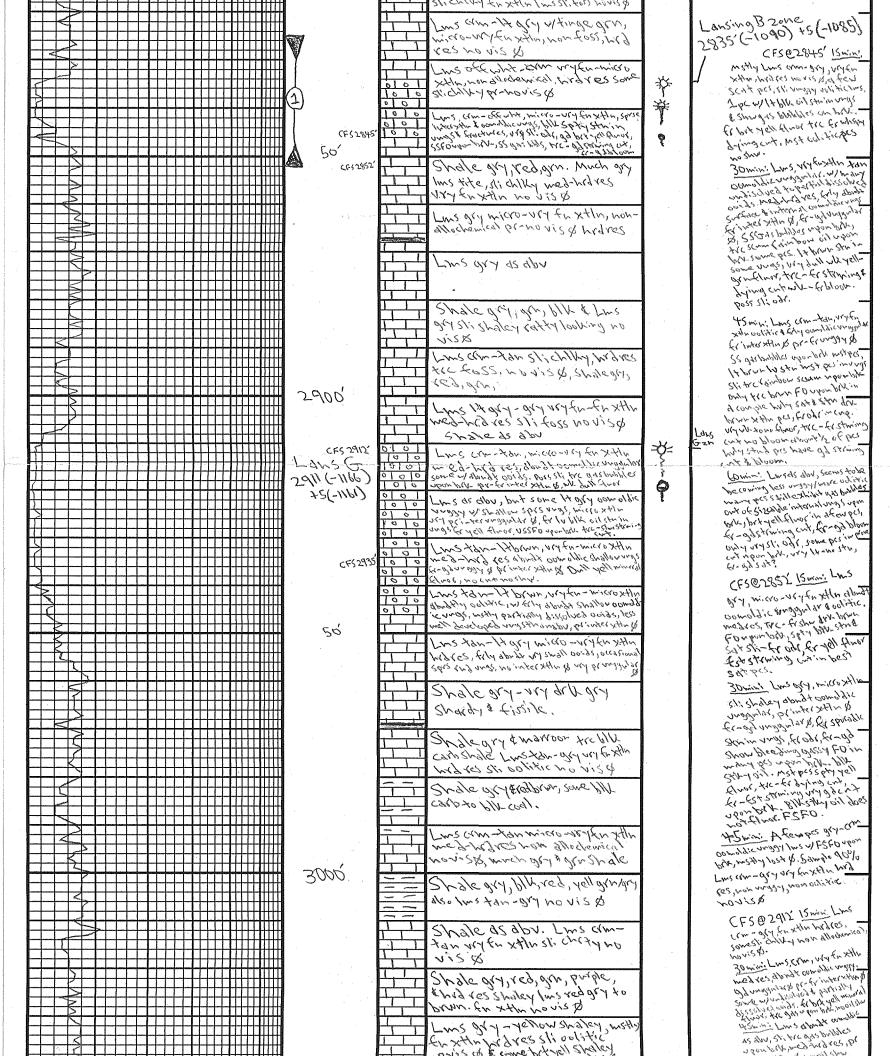
Soth Evenson on Location 2649 @4:35am Sunday January 27th, 2013



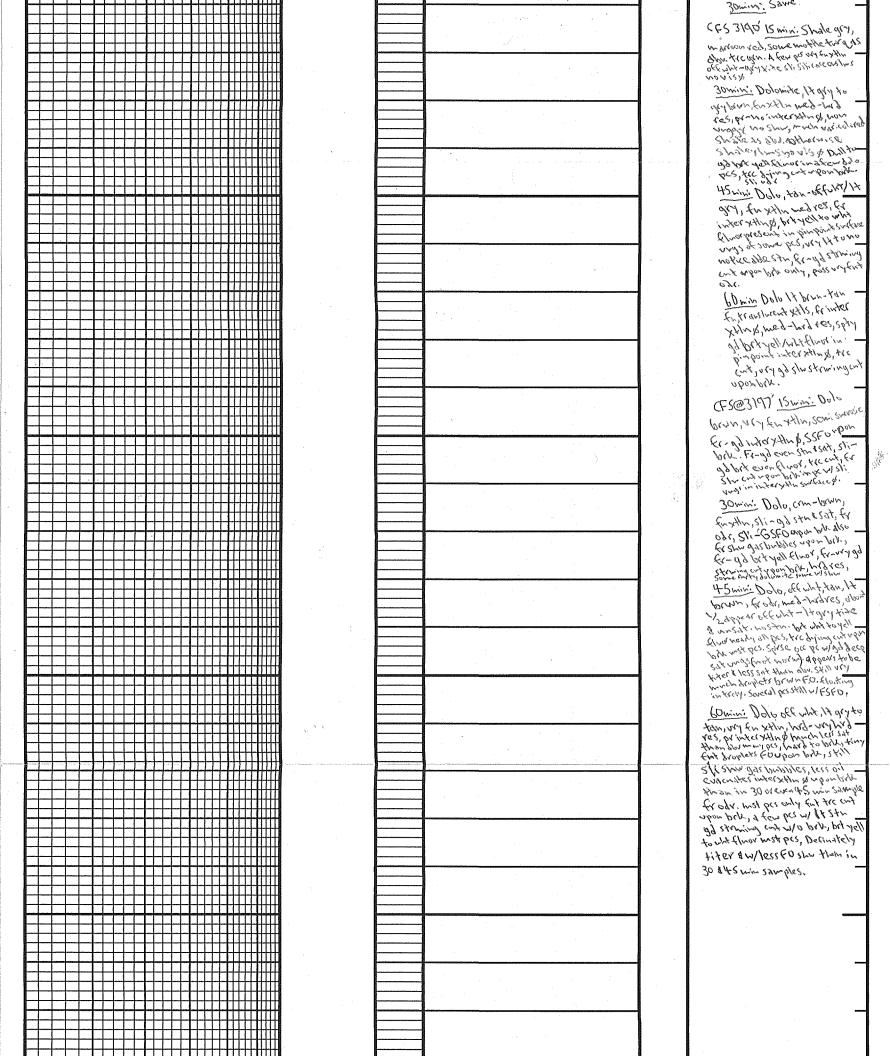
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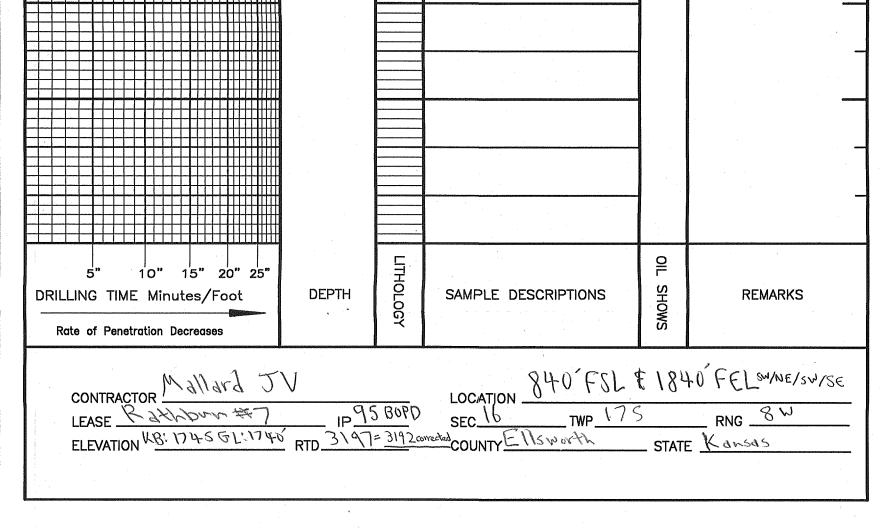
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	#				+H		#			##					CFS 3183' 15min: Shale
					#			Ш	HH	$\parallel \parallel$					gry, varicolored Shake a cont
pa transmission		H			#	1111		H	###				The state of the s		poars to grow astronogy ram
			1							111					Nozak





## ALLIED OIL & GAS SERVICES, LLC 059255 Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092			SERVICE POINT:
A CONTRACTOR OF THE CONTRACTOR		1-29-23	1 130-13
DATE 1-20-13 16 17	RANGE	CALLED OUT ON LOCA	TION JOB START JOB FINISH
LEASER THAU PAWELL# 7	LOCATION 4 & 14	Jet, 3 North, 3	COUNTY STATE
OLD OR(NEW (Circle one)	water formed	100000	
CONTRACTOR Mallard TYPE OF JOB Production	2000	OWNER Same	7.3
HOLE SIZE 779" T.D.	3197	CEMENT	
	H3162	CEMENT	80 ASC 220 MM
TUBING SIZE DEPTH		10% Solt, los Mars	red Si Hilronia/ 2
DRILL PIPE DEPT		3	1, 3 350 1500 1700
TOOL DEPT			
	MUM SSDFT EJOINT 31, 27	COMMON	
CEMENT LEFT IN CSG. 31 27	301N1 .51, 327	POZMIX	
PERFS.		CHLORIDE	
DISPLACEMENT		ASC / 80 3%	@ 20.90 3.762 00
EQUIPMENT		Gilsonite	900 @ .98 882.00
PUMPTRUCK CEMENTER	- Ailin		
7. 1	Tilace 2	,	@
BULK TRUCK	0		
	Carpen 2		@
BULK TRUCK	`		@
# DRIVER		HANDLING 230.47	@ 2.48 571.56
		MILEAGE 10.06 X >	10 % 2.60 1.046. 34
REMARKS:		.10	TOTAL 6.261.80
Ro-31951 of 52 cha. Ho	fro ou folce	402.40	
Buch Timelotion tue	utited ad this	S. S	ERVICE
Those Isone ASC Danel			
1 Sc Agress, 57 aliente h.	control rig.	DEPTH OF JOB 3150	5
Delicated Play. Desplaced is the Road At a boarded Play at 1000 to Released in Float			
Held Plups Rathal with 10 mly		EXTRA FOOTAGE Lies	
Had SSO Denlacine Prening.		MANIFOLD Lum 5	10 @ 4.40 176.00
	7	Derrich Connection	@ 577.50 577.50
<b>A a</b>		White Time 3/2 h	W_ @ 11/C
CHARGE TO: David, Joh	NT FOT	•	35
STREET 225 N. Marghet S	11		TOTAL 3.8 95. 25
		A	
CITYWINGTON STATE KE	ZIP(07404-	PLUG & F	LOAT EQUIPMENT
		1200 61	Dom Dom Merci
	(u	D [- Ek] N. (1. 2.)	e. @280.80 280.80
	(6)		₹ @ 334.62 334.62
To: Allied Oil & Gas Services, LLC.	(1)	) 2. S. Contraking	2 @ 57.33 114.66
You are hereby requested to rent ceme	enting equipment	I- Sa Rubber PD	@ 85.41 85.41
and furnish cementer and helper(s) to			
contractor to do work as is listed. The			49
done to satisfaction and supervision of	f owner agent or		TOTAL 815. 49
contractor. I have read and understand		011 50 51 7/ 464	398 TJ
TERMS AND CONDITIONS" listed on the reverse side.		SALES IAX (If Any)	54
1/12 1	. \	SALES TAX (If Any) TOTAL CHARGES 10.	714.
PRINTED NAMEY (DO ) ACVAV		DISCOUNT	IF PAID IN 30 DAYS
$\frac{1}{n}$	1	0 >	IF PAID IN 30 DAYS
SIGNATURE Y / / )		0 · /	10.

# QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041	Home Office P.O.	Box 32 Russell, KS 67665 No. 6066		
Date   -23-13   Sec.	Twp. Range E	State On Location Finish		
dimon and including the in		cation 4+14 Jct, 3N to VRd, 12 W		
Lease Rathbun	Well No.	Owner NITHO		
Contractor Mallacd	n	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Type Job Justace Hole Size 1244 T.D. 260		Charge Darcah oil		
Csg. 8 5/8 n	Depth 2601	Street		
Tbg. Size	Depth	City State		
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.		
Cement Left in Csg. 15 Shoe Joint 15		Cement Amount Ordered 170 SX Common 3% CC		
Meas Line Displace 15 % BLS		5 2% (se)		
EQUIPMENT		Common /70		
Pumptrk No. Cementer Tools		Poz. Mix		
Bulktrk 4 No. Driver Driver Driver Driver		Gel. 3		
Bulktrk DIL No. Driver Ro	cK	Calcium 6		
JOB SERVICES & REMARKS		Hulls		
Remarks: ement did	Circulate.	Salt		
Rat Hole		Flowseal		
Mouse Hole		Kol-Seal		
Centralizers		Mud CLR 48		
Baskets of Few a most polene spaniel to get		CFL-117 or CD110 CAF 38		
D/V or Port Collar	al ing of merchandise in acco	Sand		
Francisco Supra June 2		Handling/29		
egal at any time offst descent to be takent of the such Children and our time are pendenced to be confirmed to the supplement of the confirmed to the confirmed		Mileage Mileage		
		FLOAT EQUIPMENT		
		Guide Shoe		
		Centralizer		
		Baskets		
		AFU Inserts		
		Float Shoe		
		Latch Down		
RELIG	ve mate rais, products of <b>aup</b>	es included to recommend to some the following from or cause to the extension of the control of		
time descriptions and to assess the life	and are seen as the second	Surface,		
		Pumptrk Charge Drad String		
cts, information, or date formalist	at you or correctness of any to	Mileage 54		
A STATE OF THE STA		Tax		
Territoria de la compansa del compansa de la compansa de la compansa del compansa de la compansa	s sy QUALITY and to unde	Discount		
X Signature	470	Total Charge		