



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1211993
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

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: _____

feet depth to: _____ w/ _____ sx cmt.

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:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1211993

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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

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

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

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

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 Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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JAMES C. MUSGROVE

Petroleum Geologist, LLC
212 Main Street
P.O. Box 215
Clafin, KS 67525

Office (620) 588-4250

Res. Clafin (620) 587-3444

Mai Oil Operations Inc.
Wagner #3
(710' FNL & 750' FWL)
Section 7-17s-14w
Barton County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (Rig #31)
Commenced: March 24, 2014
Completed: March 30, 2014
Elevation: 1972' K.B., 1970' D.F., 1964' G.L.
Casing program: Surface; 8 5/8" @ 937'
Production; 5 1/2" @ 3524'
Sample: Samples saved and examined 2800' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2800 ft. to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were two (2) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Nabors; Dual Induction, Compensated Density, Neutron Log and Micro Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	957	+1015
Base Anhydrite	984	+988
Topeka	2916	-944
Heebner	3150	-1178
Toronto	3166	-1194
Lansing	3216	-1244
Base Kansas City	3416	-1444
Conglomerate	3430	-1458
Arbuckle	3456	-1484
Rotary Total Depth	3525	-1553
Log Total Depth	3525	-1553

(All top and zone determination were made from a correlation of Electric Log measurements).

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

3110-3120' Limestone, cream, tan, finely crystalline, oolitic, fossiliferous, poor scatter pinpoint to inter-crystalline type porosity, trace stain, no free oil and no odor.
3120-3140' Limestone, tan, cream, fine and medium crystalline, poorly

developed porosity slightly, chalky, trace spotty and stain, no free oil and no odor in fresh samples.

TORONTO SECTION

3165-3174' Limestone, tan, cream, finely crystalline, chalky, poor pinpoint porosity, trace stain, no free oil and no odor in fresh sample.

LANSING SECTION

3217-3224' Limestone, white, tan, finely crystalline, few fossiliferous, poor porosity, chalky, no shows.

3234-3245' Limestone, cream, tan, finely crystalline, oolitic, oomoldic, poor to fair oomoldic porosity, chalky, spotty dark brown stain, no free oil and no odor.

3286-3292' Limestone, cream, white, finely crystalline, oolitic, sub-oomoldic, poorly developed sub-oomoldic porosity, chalky, no shows.

3295-3310' Limestone, tan, light gray, fossiliferous, poor scattered porosity, slightly chalky, dense.

3313-3320' Limestone, cream, white finely crystalline, oolitic, fossiliferous, poorly scattered vuggy porosity, trace spotty stain, no free oil and faint odor in fresh sample.

3350-3360' Limestone, cream, white, finely crystalline, oolitic, poor to fair scattered pinpoint to finely vuggy type porosity, trace brown stain, no free oil and no odor in fresh samples.

3370-3378' Limestone, cream, light gray, finely crystalline, oolitic/fossiliferous, fair porosity, no shows.

3384-3400' Limestone, cream, tan, chalky, poor visible porosity, trace poor light brown spotty stain, no show of free oil and no odor in fresh samples.

3405-3416' Limestone, cream, tan, chalky, poor visible porosity, trace poor light brown spotty stain, no show of free oil and no odor in fresh samples

CONGLOMERATE SECTION

3430-3456' Chert, tan, cream, white in matrix of brown and brick red shales, no shows.

ARBUCKLE SECTION

3456-3463' Dolomite, white, fine and medium crystalline, poor to fair inter-crystalline porosity, dark to golden brown stain, show of free oil and good odor in fresh samples.

Mai Oil Operations Inc.
 Wagner #3
 (710' FNL & 750' FWL)
 Section 7-17s-14w
 Barton County, Kansas
 Page 3

Pressures: ISIP 303 psi
 FSIP 206 psi
 IFP 51-49 psi
 FFP 49-54 psi
 HSH 1735-1644 psi

Dolomite, white, cream, fine and medium crystalline, poor to fair inter-crystalline to finely vuggy type porosity, golden to dark brown stain, show of free oil and good odor in fresh sample.

Drill Stem Test #1 3387-3463

Times: 30-45-30-45
Blow: Strong
Recovery: 1' clean oil
 31' Heavy oil cut mud
 (60% oil; 40% mud)
Pressures: ISIP 303 psi
 FSIP 206 psi
 IFP 51-49 psi
 FFP 49-54 psi
 HSH 1735-1644 psi

3463-3469' Dolomite, white, cream, fine and medium crystalline, poor to fair inter-crystalline to finely vuggy type porosity, golden to dark brown stain, show of free oil and good odor in fresh samples.

Drill Stem Test #2 3400-3469

Times: 30-45-30-45
Blow: Strong
Recovery: 252' gas in pipe
 2' clean oil
 126' Heavy oil cut mud
 (40% oil; 60% mud)
 126' Heavy oil and gas cut watery mud
 (65% oil; 5% gas; 10% mud; 10% water)
 126' very slightly oil cut mud
 (1% oil; 99% mud)
Pressures: ISIP 997 psi
 FSIP 964 psi
 IFP 20-91 psi
 FFP 95-158 psi
 HSH 1716-1634 psi

3469-3490' Dolomite, white, cream, fine to medium crystalline, fair vuggy porosity, dark brown stain, show of free oil and faint odor in fresh sample.

3490-3510' Dolomite, white, cream, medium crystalline, plus white sandy dolomite, no shows.

3510-3525' Dolomite, white fine to medium crystalline, fair to good inter-crystalline and vuggy type porosity, scattered stain, trace of free oil, plus trace white cream, boney chert and trace of pyrite.

Rotary Total Depth 3525 - 1553
Log Total Depth 3525 - 1553

Mai Oil Operations Inc.
Wagner #3
(710' FNL & 750' FWL)
Section 7-17s-14w
Barton County, Kansas
Page 4

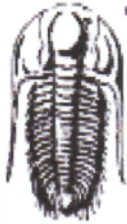
Recommendations:

The 5 1/2" production casing was set and cemented on the Mail Oil Operations Inc., Wagner #3.

Respectfully submitted;



Kurt Talbott,
Petroleum Geologist



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd Ste 800
 Dallas TX. 75226
 ATTN: kurt Talbott

7-17s-14w Barton,KS
Wagner #3
 Job Ticket: 56170 **DST#: 1**
 Test Start: 2014.03.29 @ 00:17:00

GENERAL INFORMATION:

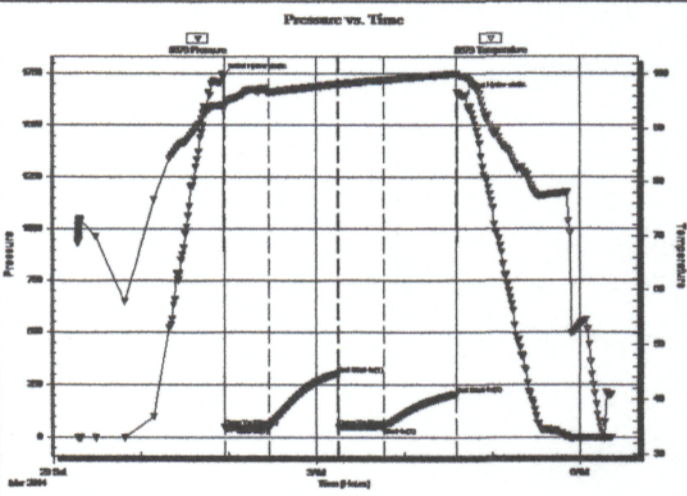
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:57:30
 Time Test Ended: 06:21:30
 Interval: **3387.00 ft (KB) To 3463.00 ft (KB) (TVD)**
 Total Depth: 3463.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Bob Hamel
 Unit No: 67
 Reference Elevations: 1972.00 ft (KB)
 1964.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8679

Inside

Press@RunDepth: 53.51 psig @ 3454.00 ft (KB)
 Start Date: 2014.03.29 End Date: 2014.03.29
 Start Time: 00:17:01 End Time: 06:21:30
 Capacity: 8000.00 psig
 Last Calib.: 2014.04.29
 Time On Btmr: 2014.03.29 @ 01:56:00
 Time Off Btmr: 2014.03.29 @ 04:40:00

TEST COMMENT: LF. - 30 - BOB in 7 min
 I.S.I. - 45 - No blow back
 F.F. - 30 - BOB in 9 min
 F.S.I. - 45 - No blow back



PRESSURE SUMMARY

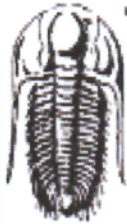
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.43	94.37	Initial Hydro-static
2	50.79	94.01	Open To Flow (1)
32	49.22	96.66	Shut-In(1)
79	302.59	98.18	End Shut-In(1)
80	49.13	98.10	Open To Flow (2)
110	53.51	98.95	Shut-In(2)
160	206.42	100.05	End Shut-In(2)
164	1644.25	99.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	H,M,C,O, 40 %MUD	0.43
1.00	CLEAN OIL 100%	0.01
0.00	200 G.I.P.	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Rd Ste 800
 Dallas TX. 75226
 ATTN: kurt Talbott

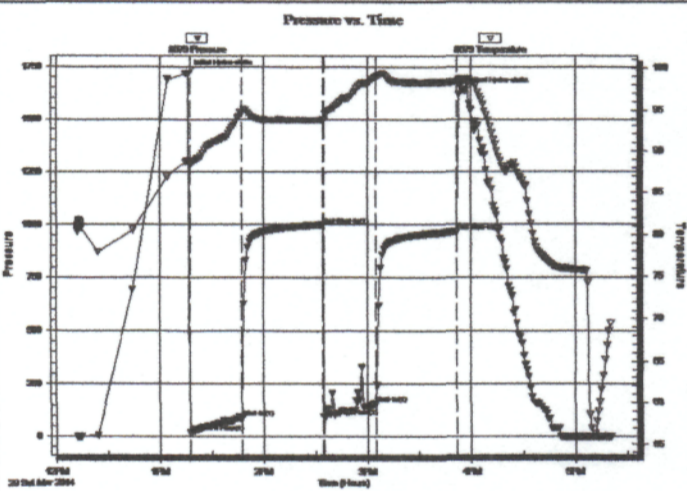
7-17s-14w Barton,KS
Wagner #3
 Job Ticket: 56171 **DST#: 2**
 Test Start: 2014.03.29 @ 12:12:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 13:17:30
 Time Test Ended: 17:21:00
 Interval: **3400.00 ft (KB) To 3469.00 ft (KB) (TVD)**
 Total Depth: **3469.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Bob Hamel**
 Unit No: **67**
 Reference Elevations: **1972.00 ft (KB)**
 1964.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8679 **Inside**
 Press@RunDepth: **158.30 psig @ 3401.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2014.03.29** End Date: **2014.03.29** Last Calib.: **2014.03.29**
 Start Time: **12:12:01** End Time: **17:21:00** Time On Btrc: **2014.03.29 @ 13:16:30**
 Time Off Btrc: 2014.03.29 @ 15:56:30

TEST COMMENT: IF. - 30 - BOB in 9 min
 I.S.I. - 45 - Weak surface blow back
 F.F. - 30 - BOB in 13 min
 F.S.L - 45 - Weak surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1716.04	88.83	Initial Hydro-static
1	20.11	88.47	Open To Flow (1)
31	91.18	94.73	Shut-In(1)
78	996.71	93.74	End Shut-In(1)
78	94.89	93.79	Open To Flow (2)
108	158.30	99.05	Shut-In(2)
155	964.14	98.31	End Shut-In(2)
160	1634.36	98.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	S,O,C,M, (SCUM OF OIL) 1% OIL 99% MUD	1.77
126.00	S,G,W,C,M,O 5% GAS 10% WTR. 20% MUD	1.77
126.00	H,O,C,M, 40% OIL 60% MUD	1.77
2.00	CLEAN OIL 100%	0.03
0.00	252' G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

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. 7135

Date <i>3-25-14</i>	Sec. <i>7</i>	Twp. <i>17</i>	Range <i>14</i>	County <i>Barton</i>	State <i>KS</i>	On Location	Finish <i>8:00AM</i>
				Location <i>281 & Eggs For sale, 4W, 1/2N, E12</i>			
Lease <i>Wagner</i>		Well No. <i>3</i>		Owner			
Contractor <i>Southwind 3</i>				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 <i>Surface</i>							
Hole Size <i>12 1/4</i>		T.D. <i>937</i>		Charge To <i>Mai Oil</i>			
Csg. <i>8 5/8</i>		Depth <i>937</i>		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.		Shoe Joint <i>20</i>		Cement Amount Ordered <i>350 sk 60/40, 3% cc, 2% gel</i>			
Meas Line		Displace <i>58 1/2 bbl</i>					
EQUIPMENT				Common			
Pumptrk <i>5</i>	No.	Cementer		Poz. Mix			
		Helper <i>Lonniew</i>					
Bulktrk <i>4</i>	No.	Driver		Gel.			
		Driver <i>Ryan</i>					
Bulktrk <i>PH</i>	No.	Driver		Calcium			
		Driver <i>Travis</i>					
JOB SERVICES & REMARKS				Hulls			
Remarks: <i>Cement did circulate</i>				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
				Handling			
				Mileage			
				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				<i>1 Rubber Plug</i>			
				Pumptrk Charge			
				Mileage			
				Tax			
				Discount			
				Total Charge			
X Signature <i>Jay Driver</i>							

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. 7141

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-30-14	7	17	14	Barton	KS		12:45 PM

Location Eggs 4 Sale, 4w, 1/2N, En 2

Lease	Wagner	Well No.	3	Owner	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.
Contractor	Southwind	#3		Charge To	Mai Oil
Type Job	long string	T.D.	3525	Street	
Hole Size	7 7/8	Depth	3523	City	State
Csg. 5 1/2 14#		Depth	3523	The above was done to satisfaction and supervision of owner agent or contractor.	
Tbg. Size		Depth		Cement Amount Ordered	160 sx 60% 40, 2% gel, 10% salt.
Tool		Depth		Meas Line	Displace 85 1/2 bbl
Cement Left in Csg.		Shoe Joint	20.28		1/4 # Flow

EQUIPMENT

Pumptrk 17	No.	Cementer		Common
		Helper	NICK	Poz. Mix
Bulktrk 14	No.	Driver	Lonnie M.	Gel.
Bulktrk PH	No.	Driver	Travis	Calcium

JOB SERVICES & REMARKS

Remarks:	Salt
Rat Hole 30 sx	Flowseal
Mouse Hole	Kol-Seal
Centralizers 1-7, 9-11	Mud CLR 48 1,000 gal
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
Pipe on bottom broke circulation. Pumped 1,000 gal mud CLR 48 with 10 bbl fw behind it. Plugged Rat hole with 30 sx. Hooked to 5 1/2" Mixed 130 sx shut down warned pump and lines. Released plug and displaced with 85 bbl fw. Plug landed and held.	Handling
	Mileage

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer 10 Turbos
	Baskets
	AFU Inserts
	Float Shoe 1
	Latch Down 1

litt pressure 800 psi

Plug landed at 1,400 psi

	Pumptrk Charge	
	Mileage	
		Tax
		Discount
		Total Charge

X Signature *Bert Jensen*