



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1104310
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: _____



1104310

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

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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Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



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

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

Sam Brownback, Governor

December 10, 2012

Allen Bangert
Mai Oil Operations, Inc.
8411 PRESTON RD STE 800
DALLAS, TX 75225-5520

Re: ACO1
API 15-009-25751-00-00
Dirreen-Wagner Unit 1
NE/4 Sec.29-17S-14W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Allen Bangert

JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations Inc.
Dirreen-Wagner Unit #1
NW-NW-SW-NE (1400' FNL & 2580' FWL)
Section 29-17s-14w
Barton County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Southwind Drilling Co. (Rig #3)
Commenced: September 25, 2012
Completed: October 3, 2012
Elevation: 1872' K.B; 1870' D.F; 1864' G.L.
Casing program: Surface; 8 5/8" @ 850'
Production; 5 1/2" @ 3450'
Sample: Samples saved and examined 2700' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 2700 ft to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: There were seven (7) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Nabors Completion and Production Services Co.; Dual Induction, Compensated Density/Neutron Log and Micro Log.

<u>Horizon</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	844	+1028
Base Anhydrite	873	+999
Topeka	2811	-939
Heebner	3043	-1171
Toronto	3056	-1184
Douglas	3068	-1196
Brown Lime	3104	-1232
Lansing	3116	-1244
Conglomerate	3335	-1463
Arbuckle	3364	-1492
Rotary Total Depth	3451	-1579
Log Total Depth	3450	-1578

(All tops and zones corrected to Electric Log measurements).

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

TOPEKA SECTION

2964-2976' Limestone; buff, cream, finely crystalline, chalky, trace stain, (dead), trace black scummy oil, no free oil and no fluorescence.

2993-3002' Limestone; cream, gray, white, finely crystalline, trace oolitic, scattered intercrystalline porosity, poor stain, trace heavy dark oil and no odor in fresh samples.

TORONTO SECTION

3056-3066' Limestone; cream, white, finely crystalline, scattered intercrystalline porosity, chalky, no shows.

LANSING SECTION

3117-3122' Limestone; cream, buff, finely crystalline, fossiliferous, oolitic, scattered intercrystalline porosity, golden brown stain, scattered vuggy porosity, brown and black stain, trace of free oil and no odor in fresh samples.

3124-3138' Limestone; buff, white, finely crystalline, oolitic, oomoldic, scattered porosity, brown spotty stain, trace of free oil and fair odor in fresh samples.

Drill Stem Test #1 & #2 3112-3140'

Misrun – could not get to bottom with test tool.

3158-3164' Limestone; white, gray, finely crystalline, chalky, dense, trace dark stain, no free oil and no odor.

3174-3186' Limestone; tan, buff, fine and medium crystalline, fossiliferous, scattered fossil fragments, scattered micro vugs to pinpoint type porosity, golden brown stain, show of free oil and faint odor.

3191-3196' Limestone; cream, white, finely crystalline, fossiliferous, poor porosity, golden brown stain, trace of free oil.

Drill Stem Test #3 3160-3199'

Times: 30-30-30-30

Blow: Weak

Recovery: 5' mud

Pressures: ISIP 23 psi
 FSIP 19 psi
 IFP 14-15 psi
 FFP 15-16 psi
 HSH 1552-1513 psi

3200-3208' Limestone; cream, buff, white, finely crystalline, oolitic, oomoldic, fair porosity, trace stain, trace free oil and no odor in fresh samples.

3256-3266' Limestone; cream, white, finely crystalline, fossiliferous, black stain, trace of free oil and no odor.

3274-3281' Limestone; cream, tan, finely crystalline, fossiliferous in part, black stain, trace of free oil and faint odor.

3290-3296' Limestone; cream, tan, white, fossiliferous, finely crystalline, black stain and faint odor in fresh samples.

Drill Stem Test #4 **3248-3318'**

Times: 30-30-30-30
Blow: Fair
Recovery: 165' gas in pipe
25' slightly oil cut mud
(15% oil, 85% mud)
Pressures: ISIP 351 psi
FSIP 299 psi
IFP 16-20 psi
FFP 17-22 psi
HSH 1611-1588 psi

ARBUCKLE SECTION

3367-3373' Dolomite; white, cream, medium to coarse crystalline, good intercrystalline porosity, fair stain and saturation, good show of free oil and strong odor in fresh samples.

Drill Stem Test #5 **3321-3373'**

Times: 30-30-30-30
Blow: Weak
Recovery: 5' very slightly oil cut mud
(2% oil 98% mud)
Pressures: ISIP 49 psi
FSIP 34 psi
IFP 16-18 psi
FFP 18-18 psi
HSH 1688-1606 psi

3373-3380' Dolomite; as above, fair to good vuggy porosity, fair stain and saturation, show of free oil and good odor in fresh samples, sandy in part.

Drill Stem Test #6 3370-3380'

Times: 30-30-45-45

Blow: Strong

**Recovery: 220' gas in pipe
 50' clean gassy oil
 30' slightly mud cut gassy oil
 (10% gas, 60% oil, 30% mud)**

**Pressures: ISIP 363 psi
 FSIP 161 psi
 IFP 14-17 psi
 FFP 17-45 psi
 HSH 1563-1491 psi**

3380-3386' Dolomite; as above, brown stain and saturation, show of free oil and faint odor in fresh samples.

Drill Stem Test #7 3380-3386'

Times: 30-30-45-45

Blow: Good

**Recovery: 30' clean oil
 40' heavy oil cut muddy water
 (35% oil, 25% water, 40% mud)**

**Pressures: ISIP 769 psi
 FSIP 723 psi
 IFP 16-28 psi
 FFP 29-48 psi
 HSH 1670-1621 psi**

3386-3400' Dolomite; white, gray, fine and medium crystalline, scattered porosity, gray and black stain, trace of free oil and faint odor in fresh samples.

3400-3415' Dolomite; as above, fair intercrystalline porosity, trace stain, no free oil and no odor.

3415-3430' Dolomite; gray, white, finely crystalline, poor to fair intercrystalline and pinpoint porosity, trace iron pyrite, no shows.

3430-3450' Dolomite; white, cream, medium crystalline, good intercrystalline and vuggy porosity, trace glauconite, no shows.

**Rotary Total Depth 3451
 Log Total Depth 3450**

Mai Oil Operations Inc.
Dirreen-Wagner Unit #1
NW-NW-SW-NE (1400' FNL & 2580' FWL)
Section 29-17s-14w
Barton County, Kansas
Page 5

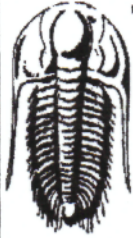
Recommendations:

5 1/2" production casing was set and cemented on the Dirreen-Wagner Unit #1.

Respectfully submitted;

James C. Musgrove & W. Scott Alberg
James C. Musgrove and
W. Scott Alberg,
Petroleum Geologists





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Operations, Inc.
 8411 Preston Rd STE 800
 Dallas TX 75225
 ATTN: Scott Alberg

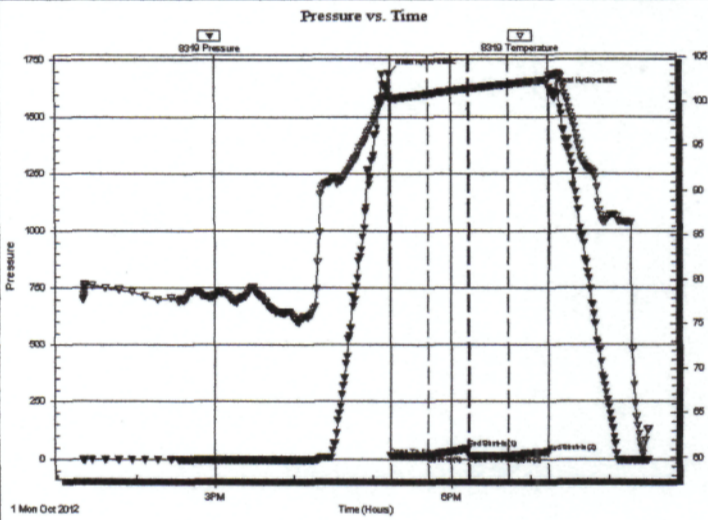
Dirreen-Wagner Unit #1
29-17s-14w Barton,KS
 Job Ticket: 43587 **DST#: 5**
 Test Start: 2012.10.01 @ 13:20:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 17:13:30
 Time Test Ended: 20:30:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Interval: **3321.00 ft (KB) To 3373.00 ft (KB) (TVD)**
 Total Depth: 3373.00 ft (KB) (TVD)
 Reference Elevations: 1872.00 ft (KB)
 1864.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8319 **Inside**
 Press@RunDepth: 18.16 psig @ 3325.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.01 End Date: 2012.10.01 Last Calib.: 2012.10.01
 Start Time: 13:20:05 End Time: 20:29:59 Time On Btm: 2012.10.01 @ 17:12:30
 Time Off Btm: 2012.10.01 @ 19:16:00

TEST COMMENT: IF-1/4" blow
 IS-No blow
 FF-No blow
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1688.47	100.66	Initial Hydro-static
1	15.99	100.26	Open To Flow (1)
30	17.66	100.86	Shut-In(1)
60	48.78	101.42	End Shut-In(1)
61	17.82	101.44	Open To Flow (2)
91	18.16	101.93	Shut-In(2)
121	33.62	102.40	End Shut-In(2)
124	1605.53	102.95	Final Hydro-static

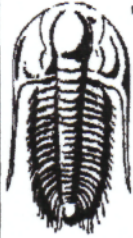
Recovery

Length (ft)	Description	Volume (bbl)
3.00	VSOCM 2%O 98%M	0.04

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mai Operations, Inc.
 8411 Preston Rd STE 800
 Dallas TX 75225
 ATTN: Scott Alberg

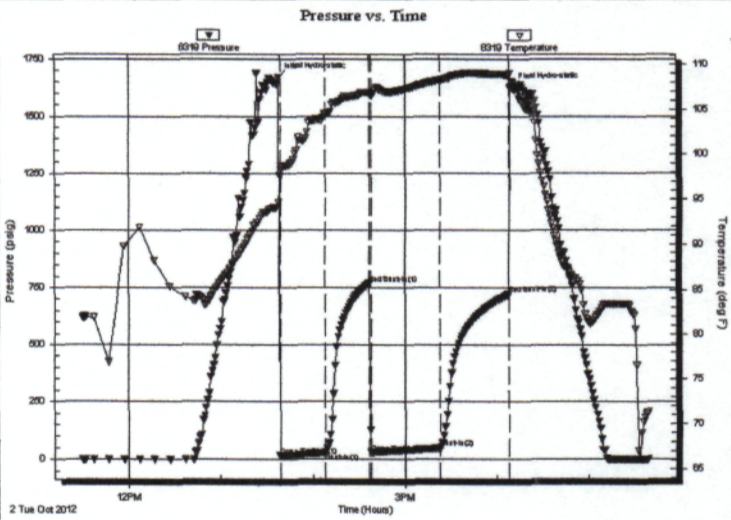
Dirreen-Wagner Unit #1
29-17s-14w Barton,KS
 Job Ticket: 43589 **DST#: 7**
 Test Start: 2012.10.02 @ 11:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 13:38:30
 Time Test Ended: 17:38:30
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Interval: **3380.00 ft (KB) To 3386.00 ft (KB) (TVD)**
 Total Depth: 3386.00 ft (KB) (TVD)
 Reference Elevations: 1872.00 ft (KB)
 1864.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8319 **Inside**
 Press@RunDepth: 47.77 psig @ 3383.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.02 End Date: 2012.10.02 Last Calib.: 2012.10.02
 Start Time: 11:30:05 End Time: 17:38:29 Time On Btm: 2012.10.02 @ 13:37:30
 Time Off Btm: 2012.10.02 @ 16:10:00

TEST COMMENT: IF-5 1/4" blow
 IS-No blow
 FF-3" blow
 FSI-No blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.31	94.59	Initial Hydro-static
1	15.75	97.57	Open To Flow (1)
31	27.66	104.51	Shut-In(1)
60	769.43	106.87	End Shut-In(1)
61	29.22	106.60	Open To Flow (2)
106	47.77	108.23	Shut-In(2)
151	722.75	108.79	End Shut-In(2)
153	1623.63	107.95	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
40.00	WOCM 25%W 35%O 40%M	0.56
50.00	SGO 10%G 90%O	0.70
0.00	90ft GIP	0.00

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

* Recovery from multiple tests

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. 6011

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-26-12	29	17	14	Barton	KANSAS		6:15am
				Location 2811 Hwy 4 - 2 W - 1/2 N - W/TINTO			
Lease DTPREEM WAGNER		Well No. #1		Owner MAT OIL			
Contractor SLD #3		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 L. SURFACE							
Hole Size 12 1/4"		T.D. 850'		Charge To MAT OIL			
Csg. 8 5/8"		Depth 850'		Street 8411 PERSTON			
Tbg. Size		Depth		City DALLAS		State TX 75225	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint 37'		Cement Amount Ordered 350 6/40-300-2% GEL			
Meas Line		Displace 52 Bbls					
EQUIPMENT				Common			
Pumptrk #5	No.	Cementer Helper BRETT		Poz. Mix			
Bulktrk #4	No.	Driver HEATH		Gel.			
Bulktrk DIU	No.	Driver GISSO		Calcium			
JOB SERVICES & REMARKS				Hulls			
Remarks:				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			
CEMENT DID NOT CIRCULATE x				Mileage			
				FLOAT EQUIPMENT			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				1-8 5/8" RUBBER PLUG			
				Pumptrk Charge			
				Mileage			
THANK YOU x							
x Signature <i>B. H. Hines</i>				Tax			
				Discount			
				Total Charge			

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. 5381

Date	10-3-12	Sec.	29	Twp.	17	Range	14	County	Barton	State	Ks	On Location		Finish	3:00 PM
Lease	Well No.		1		Location		281 + 4 Sec, 2W, 1/2N, 1/8W, N 1/2 E								
Contractor	Southwind #3				Owner		West + North to well								
Type Job	Production				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.								
Hole Size	7 1/8"		T.D.		3451'		Charge To		Maj oil						
Csg.	5 1/2" 14# New		Depth		3448.40'		Street								
Tbg. Size			Depth				City		State						
Tool			Depth				City		State						
Cement Left in Csg.	20.40'		Shoe Joint		20.40'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		83 1/2 BLS		Cement Amount Ordered		160 s; 60/40 10% salt 2% Gel						
EQUIPMENT							1/4" Flo-seal		1000 gal mud		Clear 48				
Pumptrk	16	No.	Cementer		Travis		Common								
Bulktrk	1	No.	Driver		Doug		Poz. Mix								
Bulktrk	p.u.	No.	Driver		Rick		Gel.								
JOB SERVICES & REMARKS							Calcium								
Remarks:	Dixen Wagner unit #1						Hulls								
Rat Hole							Salt								
Mouse Hole	pipe on bottom, break Circ.						Flowseal								
Centralizers	pump 1000 gal mud Clear 48						Kol-Seal								
Baskets	pump 5 BLS of water, plug						Mud CLR 48								
D/V or Port Collar	Rathole w/ 30 sv						CFL-117 or CD110 CAF 38								
Hook to 5 1/2" Casing + mix.	130sv						Sand								
60/40 10% Salt 2% Gel 1/4" Flo-seal	shut						Handling								
down wash pump + lines.							Mileage								
Released plug. Displaced with 83 1/2 BLS	of water. Released + held.						FLOAT EQUIPMENT								
Lift pressure 700 #							Guide Shoe								
Land plug to 1400 #							Centralizer		10 turbos						
Cents - #'s 1-8, 10-11							Baskets								
pipe set @ 3438.40'							AFU Inserts								
							Float Shoe								
							Latch Down								
							Pumptrk Charge								
							Mileage								
							Tax								
							Discount								
X Signature	Burt Amey						Total Charge								