

CONFIDENTIAL

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

ORIGINAL

Operator: License # 30606
Name: Murfin Drilling Company, Inc.
Address: 250 N. Water, Suite 300
City/State/Zip: Wichita, Kansas 67202
Purchaser: _____
Operator Contact Person: Tom W. Nichols
Phone: (316) 267-3241
Contractor: Name: Murfin Drilling Company, Inc.
License: 30606
Wellsite Geologist: Kris Kennedy

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW 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. _____

9/3/05 9/11/05
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-179-21137-0000

County: Sheridan

S2 SE SW Sec. 12 Twp. 9 S. R. 26 East West

175 S feet from S / N (circle one) Line of Section

1950 W feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:

(circle one) NE SE NW SW

Lease Name: Borger Unit Well #: 1-12

Field Name: Popp Up

Producing Formation: Lansing 'J'

Elevation: Ground: 2639' Kelly Bushing: 2644'

Total Depth: 4175' Plug Back Total Depth: 4144.38'

Amount of Surface Pipe Set and Cemented at 282 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2323.58 Feet

If Alternate II completion, cement circulated from 2323.58

feet depth to surface w/ 400 sx cmf.

Drilling Fluid Management Plan AH-IWUM 1-8-08
(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 No.: _____

Quarter _____ Sec. _____ Twp. _____ 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]

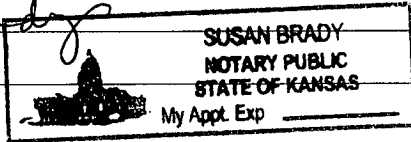
Title: Tom Nichols, Production Manager Date: 12/14 2005

Subscribed and sworn to before me this 14th day of December

2005

Notary Public: [Signature]

Date Commission Expires: 11-4-07



KCC Office Use ONLY

YES Letter of Confidentiality Received

If Denied, Yes Date: _____

_____ Wireline Log Received

_____ Geologist Report Received

_____ UIC Distribution

X

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Side Two

ORIGINAL

Operator Name: Murfin Drilling Company, Inc. Lease Name: Borger Unit Well #: 1-12
Sec. 12 Twp. 9 S. R. 26 East West County: Sheridan

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 <i>(Attach Additional Sheets)</i>	<input checked="" 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SEE ATTACHED LIST KCC DEC 14 2005 CONFIDENTIAL		
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

Dual Induction, Dual Compensated Porosity, Microresistivity

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		8 5/8	24#	282	Common	200	3% cc, 2% gel
Production		5 1/2	15.5#	4166	AA-2	155	5% Calseal, 10% salt

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	0-1890	SMD	300	1/4# flocele
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	0-1890	Common	100	2% cc

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3972-76 Lansing 'F'	250 gal 15% MCA	
	CIBP @ 2300'	750 gal 15% FeNe w/5% miscible solvent &	
		25 bio- degradable ball sealers.	

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

Date of First, Resumerd Production, SWD or Enhr. Waiting on KCC approval Form U-1 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 Vented Sold Used on Lease *(If vented, Submit ACO-18.)* METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

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9/10/05 RTD 4175'. Cut 97'. DT: none. CT: 17 hrs. Dev.: none. HC @ 4:45 p.m. 9/9/05.
 Log Tech logged from 9:45 p.m. 9/9/05 to 2:30 a.m. 9/10/05, LTD @ 4176'.

9/11/05 RTD 4175'. CT: 11 ¼ hrs. Ran 99 jts of 5 ½" csg. set @ 4166', Acid Services cmt
 w/155 sx. AA-2, plug down @ 2:15 p.m. 9/10/05, float didn't hold. Port collar @ 2323',
 15 sx. in RH. Rig released @ 6:15 p.m. 9/10/05. **FINAL REPORT.**

Borger Unit #1-12 175' FSL 1950 FWL Sec. 12-T9S-R26W 2644' KB						Popp-Borger Unit #1-14 630 FNL 160 FEL Sec. 14-T9S-R26W 2649' KB		
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	2308	+336	Flat				2313	+336
B/Anhydrite	2347	+297	-4				2348	+301
Neva	3224	-580	-7	3225	-581		3222	-573
Topeka	3650	-1006	-6	3649	-1005		3649	-1000
Heebner	3856	-1212	-5	3858	-1214		3856	-1207
Toronto	3880	-1236	-5	3881	-1237		3880	-1231
Lansing	3896	-1252	-5	3898	-1254		3896	-1247
BKC				4124	-1480		4128	-1479
RTD	4175			4176				
LTD							4197	

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**Borger Unit #1-12
Completion Report
Section 12-9S-26W
Sheridan County, KS**

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- 9/10/05 Unloaded 103 jts new 5 1/2", 15.5 PPF LTC Midwestern Pipeworks csg. Murray Csg crews drifted csg. RTD @ 4175', LTD 4176'. MDC Rig #3 TIH w/99 jts w/guide shoe & port collar. Broke circulation 2733' f/15 min. Tagged btm 4168'. Set btm guide shoe 4166.01', insert 4144.38', shoe jts 20.63', port collar 2323.58' w/basket below P.C. Circ & rotated 1 hr prior to cementing. RU Acid Services. Pumped 5 BFW, 12 bbl super flush, 3 BFW & SI csg. Plugged rat hole w/25 sacks. Tied onto csg. Pumped 10 sacks AA2 cmt & hopper on pump truck plugged off. Worked w/for 30 min & did not get cleaned out. Tied mud pump onto csg & circ super flush & cmt out of hole. Circulated while pump truck being cleaned out. Tied pump truck back onto csg. Pumped 155 sacks AA2 cmt dwn csg w/rotation & circulation. S.D. rotation. Cleaned out pump & lines. Launched wiper plug & regained circulation. Could not rotate pipe. Landed plug w/99 BFW @ 1500# = 800# over lift pressure @ 2:30 P.M. Released pressure & float leaked. Re pressured to 1500# & held. Released pressure float leaked. Re pressured to 1500# & SI. Landed csg in slips & packed off csg head. Acid Services to take off rotating head 9/11/05. Centralizers: 4144', 3974', 3808', 3594', 3338', 3089', 2834', 2408', 2112', 1856'. Scratchers: 3915-25', 3937-42', 3953-68', 3980-95'.
- 9/12/05 Waiting on completion.
- 9/16/05 Brought 8 5/8" connections to surface. Backfilled cellar & leveled location.
- 9/21/05 Waiting on Completion. Reports to follow as soon as Rig moves in.
- 9/26/05 MI 133 jts 2 3/8" tbg & unloaded. MIRU #396. SDON.
- 9/27/05 RIH w/port collar tool & 2 3/8" tbg. Tagged port collar @ 2329'. RU Acid Services. Pressure test to 1200# & held. Opened port collar. Pumped 70 bbls gel (mixed by MDC Rig #3) no blow on 8 5/8". Tied onto 8 5/8". Pumped 5 BFW 2 BPM @ 1000#. Sent truck back to rig #3 f/80 bbls gel. Pumped 8 bbl gel dwn tbg & 400 sacks A-con w/1/4# cell flake & 3% CC, no circulation out of 8 5/8". Closed port collar. Pressure test to 1200# & held. Ran tbg to 2520', circulated clean w/20 BFW. TOH w/tbg. Loaded csg w/FW. SDON. Est cost \$18,068.
- 9/28/05 RU Log Tech. Ran temperature survey. TOC 1920'. Unable to get cmt. SDON. Est cost \$22518.
- 9/29/05 RU Log Tech. Perforated 5 1/2" csg @ 1890' = 30' above TOC. RU Swift Services. Pumped 5 BFW, 3 BPM 300#, no blow on 8 5/8". Pumped 10 sacks gel = 30 bbl, 200 sacks SMD, no blow on 8 5/8". SD f/30 min. Pumped 100 sacks SMD, no blow on 8 5/8", 3 1/2 BPM 700#. Put in wiper plug. With 41 bbl displacement pumped started circulating out of 8 5/8" w/full returns. Displaced cmt w/44 1/4 BW, 3 1/2 BPM, 1000#, ISIP 450#.
- 9/30/05 Log Tech ran temperature survey f/GL to 1879'. Top of cmt @ 315' f/surface. Called Herb Deines w/KCC. Said the cmt must be to GL f/alternate II purposes. Laid dwn 81 jts 2 3/8" tbg f/derrick. Total Lease Service backhoe dug out bradenhead. MDC welder orange-peeled 8 5/8" surface pipe to 5 1/2" csg. Left door in orange-peel to run 1/2" line pipe between strings. Ran 15 jts 1/2" line pipe. Tagged cmt @ 309' f/surface or 314' K.B. RU Allied. Gained circulation f/8 5/8". Mixed 60 sacks 60/40 6% gel 2% CC. Had good cmt to surface @ end of job. Emptied cellar. MDC backhoe backfilled cellar. SDOWE. Set p to run bond log 10/3/05.
- 10/3/05 RU Log Tech. Ran Sonic Cement Bond Log. RIH w/new 4 7/8" bit (Ser.#G410805), 3 drill collars & 2 3/8" tbg. Tagged @ 1888'. Hole full. Pressured to 500# & held. Drilled to 1917' & fell through. Rotated to 2045', circulated clean. Pressure test. Pumping into 3/4 BPM 450#, ISIP 300#, 1 min 0#. TOH. SDON. Est cost \$30,753.
- 10/4/05 RIH w/5 1/2" pkr & tbg. Set pkr 1898'. RU Swift Services. Took 1/2 bbl to ld tbg. Pressured to 900# & held. Set pkr 1869'. Loaded backside & pressured to 900# & held. Set pkr 1778', inj rate dwn tbg 1 1/4 BPM, 950#. Pressured backside to 500#, held & SI. Pumped 100 sacks common 2% CC. Washed up pump & lines. Displaced cmt w/7.88 BW, 3/4 BPM 1100# max pressure, ISIP 900#. Let set 20 min 600#. Displaced cmt w/1/4 bbl max pressue 1200#. Let set 2 hrs 1200# psi. Released pressure. Tbg dead. Released pkr. Circ 8 bbl around tool. TOH w/tbg & pkr. Loaded csg & pressured to 300#, held & SI. SDON. Est cost \$37,482.
- 10/5/05 Released pressure on csg. RIH w/4 7/8" bit, 3 drill collars & tbg. Tagged cmt 1818'. Pressured to 500# & held. Drilled cmt to 1910' & fell through. Rotated to 1927'. Circulated clean. Pressured to 500# & held f/20 min. Rotated bit to 2045', circulated clean. TOH. Swabbed dwn csg to 2400'. SDON. Est cost \$40,462.

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Borger Unit #1-12
Completion Report
Section 12-9S-26W
Sheridan County, KS

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- 10/6/05 Tagged fluid 2400'. S/D 5 1/2" csg to 3700'. RU Log Tech. Tagged fluid 3740'. Perforated 5 1/2" csg 3972-76' "F", 4 SPF EHSC. No show on guns. RIH w/model "R" pkr, SN & tbg. Set pkr 3960', isolating 3972-76 "F". RIH w/swab. Tagged fluid 3700'. 2nd pull dry. Released pkr & ran dwn to 3981' & left hang. S/D to 75' FIH while waiting on acid. RU Swift Services. Dumped 3/4 bbl 15% MCA dwn tbg to spot acid. Set pkr 3960'. Loaded tbg w/15 3/4 bbl. Acid is on btm. Pressured to 300# & held. Pressured to 500# w/slight bleed off. After 10 min same bleed off. Pressured to 1000#, dwn to 600# in 3 min. With 3/4 bbl acid out feeding 1/4 BPM 800#. Treated w/250 gal 15% MCA. Displaced acid w/19 BW, ending rate 3 BPM 825#, ISIP 400#, 10 min 100#. Released pressure, 25 BTL. Tagged fluid 100' f/surface. S/D to 3830' = 125' FIT rec 21.06 BTF, no oil show. Released pkr. Swabbed acid off backside. Reset pkr. SDON. Est cost \$47,000.
- 10/7/05 Pkr @3960', isolating 3972-76. Tagged fl 2100' = 1860' FIT, 1735' overnight fillup, all wtr. S/D to 3910' = 50' FIT, rec 9.36 BTF, 5 bbl over load, all wtr. RU Swift Services. Treated w/750 gal 15% NE/FE w/5% miscible solvent & 25 bio degradable ball sealers. Start 250 gal acid then balls. Start w/tbg loaded 3 BPM 1000# w/balls on btm 3 BPM 1400# breaking back to 1000#. Displaced acid w/30 BW, 3 BPM 1000#, ISIP 500#, 10 min 50#. Released pressure. 48 BTL. Let set 45 min. Tagged fluid 350' f/surface. S/D to 3600' = 360' FIT, rec 33.93 BTF, trace of oil. 1 hr test 5 PPH FL 3700' = 260' FIT, rec 5.85 BTF, 1% oil, 4/10% fines. 2nd hr 6 PPH FL 3700' = 260' FIT, rec 5.85 BTF, 1% oil, 3/10% fines. 3rd hr 6 PPH FL 3700' = 260' FIT, rec 5.26 BTF, 1 1/2% oil, 5/10% fines. 4th hr 6 PPH FL 3700' = 260' FIT, rec 4.09 BTF, 1% oil, 1% fines. SDOWE. Est cost \$52,579.
- 10/10/05-10/11/05 SD rain & mud.
- 10/12/05 Pkr 3960', isolating 3972-76. Tagged fluid 1450' f/surface, 2510' FIT = 2250' 4 day fillup. 25' oil on top = 99% wtr. S/D to 3600', rec 16.38 BTF. 1 hr test 6 PPH, FL 3700' = 260' FIT, rec 5.85 BTF, trace of oil. 2nd hr test 6 PPH, FL 3700' = 260' FIT, rec 5.85 BTF, trace of oil, 1% fines. 3rd hr test 6 PPH, FL 3700' = 260' FIT, rec 5.85 BTF, trace of oil, 6/10% fines. 4th hr test 6 PPH, FL 3700' = 260' FIT, rec 2.36 BTF, trace of oil, 6/10% fines. Changed cups. 5th hr test 6 PPH, FL 3700' = 260' FIT, rec 4.68 BTF, 1/2% oil, 6/10% fines. 6th hr test 6 PPH, FL 3700' = 260' FIT, rec 3.51 BTF, 1/2% oil, 6/10% fines. SDON. Est cost \$55079.
- 10/13/05 Pkr set @ 3960'. Tagged fluid 1600' f/surface, 2360' FIT, 2100' overnight f/up, all wtr. S/D to 3700', rec 13.45 BTF. 1 hr test, 6 PPH, FL 3700' = 260' FIT, rec 5.85 BTF, all wtr. 2nd hr test, 6 PPH, FL 3700' = 260' FIT, rec 5.25 BTF, scum of oil. TOH w/tbg & pkr. RU Log Tech. Set CIBP @ 2300'. RD #396, to move in A.M. Est cost \$58,647.
- 11/10/05-11/30/05 Waiting on KCC f/SWD approval.

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Borger Unit #1-12

Operator: Murfin Drilling Company, Inc.
Contractor: Murfin Drilling Company, Inc.
Rig #3

Lisbon Prospect #3089

175 FSL 1950 FWL
Sec. 12-T9S-R26W
Sheridan County, Kansas

Contact Person: David Doyel
Phone number: 316-267-3241
Well site Geologist: Kris Kennedy

Call Depth: 3000'
Spud: 5:30 p.m. 9/3/05

API # 15-179-21137
Casing: 8 5/8" @ 282'
5 1/2" @ 4166'
Elevation: 2639' GL
2644' KB

TD: 4175'

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DAILY INFORMATION:

9/2/05 Move 9/3/05.

9/3/05 MIRT.

9/4/05 Depth 315'. Cut 315'. DT: 8 hrs. (WOC). CT: none. Dev.: 1/8° @ 282'. Spud @ 5:30 p.m. 9/3/05. Ran 6 jts. = 275.73', set @ 282', cmt. w/200 sx. comm., 3% cc, 2% gel, plug down @ 10:00 p.m. 9/3/05, drilled out @ 6:00 a.m. 9/4/05, circ. 4 bbls. by Allied.

9/5/05 Depth 2350'. Cut 2035'. DT: none. CT: none. Dev.: 1/4° @ 1082', 1/2° @ 1700'.

9/6/05 Depth 3320'. Cut 970'. DT: none. CT: none. Dev.: none.

9/7/05 Depth 3836'. Cut 516'. DT: none. CT: 2 3/4 hrs. Dev.: none. **DST #1 3890-3936' (LANSING):**

9/8/05 Depth 3976'. Cut 40'. DT: none. CT: 21 1/4 hrs. Dev.: none. **DST #1 3890-3936' (Lansing A & B zones):** 30-60-60-90; IFP: wk 3" blw. FFP: wk 4" blw. Rec. 100' V SLI OCM, 120' MCW (Rw .23 @ 80°, 27,000 ppm). HP: 1932-1901; FP: 22/66, 73/127; SIP: 1001-952. BHT 117°. **DST #2 3930-3976' (Lansing C-F zones):** 30-60. Blow built to 5" in bucket on IFP no blow back, wk stdy building to 3" of FFP. Will start out of hole around 9:30 and will update as soon as we hear.

9/9/05 Depth 4078'. Cut 102'. DT: none. CT: 18 hrs. Dev.: 1/2° @ 3936'. **DST #2 3930-3976' (Lansing C-F zones):** 30-60-60-120. IFP: wk 5" blw. FFP: wk 2" blw. Rec. 35' CO (38° Grav.), 125' OCM (15% O, 85% M). HP: 1998-1903; FP: 20/46, 54/80; SIP: 870-1117. BHT 115°. **DST #3 4010-4078' (Lansing H-J zones):** 30-30-30-90. Rec. 15' Drlg M w/few oil spots. HP: 2022-1981. FP: 21/29, 32/34. SIP: 656-1014. Will cut 30-40' and look at the K&L.

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Borger Unit #1-12
 Daily drilling report
 Page two

9/10/05 RTD 4175'. Cut 97'. DT: none. CT: 17 hrs. Dev.: none. HC @ 4:45 p.m. 9/9/05.
 Log Tech logged from 9:45 p.m. 9/9/05 to 2:30 a.m. 9/10/05, LTD @ 4176'.

9/11/05 RTD 4175'. CT: 11 ¼ hrs. Ran 99 jts of 5 ½" csg. set @ 4166'. Acid Services cmt
 w/155 sx. AA-2, plug down @ 2:15 p.m. 9/10/05, float didn't hold. Port collar @ 2323',
 15 sx. in RH. Rig released @ 6:15 p.m. 9/10/05. **FINAL REPORT.**

Borger Unit #1-12 175' FSL 1950 FWL Sec. 12-T9S-R26W 2644' KB							Popp-Borger Unit #1-14 630 FNL 160 FEL Sec. 14-T9S-R26W 2649' KB	
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref	Log Top	Datum
Anhydrite	2308	+336	Flat				2313	+336
B/Anhydrite	2347	+297	-4				2348	+301
Neva	3224	-580	-7	3225	-581		3222	-573
Topeka	3650	-1006	-6	3649	-1005		3649	-1000
Heebner	3856	-1212	-5	3858	-1214		3856	-1207
Toronto	3880	-1236	-5	3881	-1237		3880	-1231
Lansing	3896	-1252	-5	3898	-1254		3896	-1247
BKC				4124	-1480		4128	-1479
RTD	4175			4176				
LTD							4197	

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Allied Cementing Co., Inc
P.O. Box 31

Russell, KS 67665

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* I N V O I C E *

Invoice Number: 098308

Invoice Date: 09/08/05

Sold Murfin Drilling Co.
To: 250 N. Water, St. #300
Wichita, KS
67202

8578

Cust I.D.....: Murfin
P.O. Number...: BorgerUnit1-12
P.O. Date.....: 09/08/05

Due Date.: 10/08/05
Terms.....: Net 30

Item I.D./Desc.	Qty. Used	Unit	Price	Net	TX
Common	200.00	SKS	10.0000	2000.00	T
Gel	4.00	SKS	14.0000	56.00	T
Chloride	7.00	SKS	38.0000	266.00	T
Handling	211.00	SKS	1.6000	337.60	E
Mileage	47.00	MILE	12.6600	595.02	E
211 sks @.06 per sk per mi					
Surface	1.00	JOB	670.0000	670.00	E
Mileage pmp trk	47.00	MILE	5.0000	235.00	E
Surface Plug	1.00	EACH	55.0000	55.00	T

All Prices Are Net, Payable 30 Days Following
Date of Invoice. 1 1/2% Charged Thereafter.
If Account CURRENT take Discount of \$ 421.46
ONLY if paid within 30 days from Invoice Date

Subtotal:	4214.62
Tax.....:	149.75
Payments:	0.00
Total....:	4364.37

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REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
OAKLEY

DATE <u>9-3-05</u>	SEC. <u>12</u>	TWP. <u>9S</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION <u>7:45 PM</u>	JOB START <u>9:30 AM</u>	JOB FINISH <u>10:00 PM</u>
LEASE <u>UNIT</u>	WELL # <u>1-12</u>	LOCATION <u>Studley 5 1/2 S - 3/4 E</u>			COUNTY <u>SHERIDAN</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR MURFIN DRILL RIG # 3

OWNER SAME

TYPE OF JOB SURFACE

HOLE SIZE 12 1/4" T.D. 282'

CASING SIZE 8 7/8" DEPTH 282'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 17 BBL

EQUIPMENT

PUMP TRUCK CEMENTER TERRY

191 HELPER WAYNE

BULK TRUCK

218 DRIVER LONNIE

BULK TRUCK

DRIVER

REMARKS:

CEMENT DID CIRC

CIRC 4 BBL TO PFT

THANK YOU

CHARGE TO: MURFIN DRILL & CO, INC

STREET

CITY STATE ZIP

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Keith Van Loon

CEMENT

AMOUNT ORDERED 200 SKS COM 3% C 28 GEL

COMMON 200 SKS @ 10% 2000

POZMIX @

GEL 4 SKS @ 14% 56

CHLORIDE 7 SKS @ 38% 266

ASC @

@

@

@

@

@

@

@

HANDLING 211 SKS @ 1% 337

MILEAGE 64 PER SK / MILE 595

TOTAL 3254

SERVICE

DEPTH OF JOB 282'

PUMP TRUCK CHARGE 670

EXTRA FOOTAGE @

MILEAGE 47 MI @ 5% 235

MANIFOLD @

@

@

TOTAL 905

PLUG & FLOAT EQUIPMENT

8 7/8 SURFACE plug @ 55%

@

@

@

@

TOTAL 55

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME

ALLIED CEMENTING CO., INC. 25730

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

CONFIDENTIAL

SERVICE POINT:

Russell

WELL FILE

DATE <u>9-30-95</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
<u>9-30-95</u>					<u>3:00pm</u>	<u>3:50pm</u>	<u>3:45pm</u>
LEASE <u>Burgess</u>	WELL # <u>1-12</u>	LOCATION <u>Studley 5 1/2 S 1/2 E</u>		COUNTY <u>Shedden</u>	STATE <u>Ks</u>		
<input checked="" type="radio"/> OLD OR NEW (Circle one)							

CONTRACTOR Martin

TYPE OF JOB Circulate Cement

HOLE SIZE _____ T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE 1/2" DEPTH 309'

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT

AMOUNT ORDERED 60 sks 60/40 60 skt

2% CC

COMMON	<u>60</u>	<u>36</u>	@	<u>8.70</u>	<u>313.20</u>
POZMIX	<u>24</u>		@	<u>4.70</u>	<u>112.80</u>
GEL	<u>4</u>		@	<u>14.00</u>	<u>56.00</u>
CHLORIDE	<u>2</u>		@	<u>38.00</u>	<u>76.00</u>
ASC			@		

EQUIPMENT

PUMP TRUCK CEMENTER Steve

345 HELPER Craig

BULK TRUCK

396 DRIVER Bary

BULK TRUCK

_____ DRIVER _____

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HANDLING	<u>66</u>	@	<u>1.60</u>	<u>105.60</u>
MILEAGE	<u>64 / skt/mile</u>			<u>316.80</u>
				TOTAL <u>980.40</u>

REMARKS:

Tie on to tubing Break circulation
Mix 60 sks

Cement did Circulate

Thank You

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>670.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>80</u>	@	<u>5.00</u>	<u>400.00</u>
MANIFOLD		@		
		@		
				TOTAL <u>1070.00</u>

CHARGE TO: Martin (Hill City)

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		

TOTAL _____

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

SIGNATURE Kevin Axelsson

PRINTED NAME _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.



CHARGE TO:
 MOREW DRINK CO.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET
 No 9080

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>NESS CITY, KS</u>	WELL/PROJECT NO. <u>1-12</u>	LEASE <u>BELGIE WEST</u>	COUNTY/PARISH <u>SHERIDAN</u>	STATE <u>KS</u>	CITY	DATE <u>9-29-05</u>	OWNER <u>SAME</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>COTRACK</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>LOCATED</u>	ORDER NO.	
3.	WELL TYPE <u>07</u>	WELL CATEGORY <u>DEVELOPMENT</u>	JOB PURPOSE <u>SQUEEZE PERFORATIONS</u>	WELL PERMIT NO.	WELL LOCATION <u>SURVEY 1W, 5S, 3/10 E 2ND</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE * 104		65	ME		4.00	260.00
578		1			PUMP SERVICE		1	NOB	1890 FT	1250.00	1250.00
410		1			SW PLUG - TOP		1	SA	5/2"	90.00	90.00
330		1			SWIFT MULTI-DRAW SMOG		300	SLB		11.00	3300.00
276		1			FREELIE		75	US		1.10	82.50
279		1			REWORK GEL		10	SLB		12.00	120.00
581		1			SERVICE CHARGE COMPT		300	SLB		1.10	330.00
583		1			DRYAGE		30955	US	1006.04/M	1.00	1006.04

WELL ITEM

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 CONFIDENTIAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED 9-29-05 TIME SIGNED 0900 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				6438.54
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL

Sheridan
TAX
6.3%

226.33

6664.87

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Wanda Wood APPROVAL John Lester

Thank You!

SWIFT Services, Inc.

DATE 9-29-05 PAGE NO.

MURPHY DRILLING Co.
WELL NO. 1-12
LEASE BOBBER WAST
JOB TYPE SQUEEZE PERFORATIONS
TICKET NO. 9080

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0830							O/I LOCATED
								5 1/2 - 15.5" / FT
								PERF. 1890'
								LEAVE 30' CNT ABOVE PERFS (4474 DCS)
	0915	4	5		✓		625	20T RATE
	0930	4	30		✓		500	MAX 10 SKS GEL
	0950	4	111		✓			MAX 200 SKS GEL = 11.2 PP6
	1020							SHUT DOWN - FILL UP TRUCK WATER
	1040	3 1/2	28		✓		650	MAX 50 SKS = 5.0 PP6
		3 1/2	14		✓		700	MAX 50 SKS = 5.0 PP6
	1107							WASH OUT PUMP - LINES
								WELL CHARGES UP - LET SET
	1140							RELEASE PLUG - WELL FLOW BACK LITTLE
	1142	3 1/2	0		✓		500	DISPLACE PLUG NO CIRCULATION
		3 1/2	15		✓		850	"
		3	40		✓		1050	"
		3	41		✓		1000	" PSI FALLING - CALCULATED
	1158	2	44 1/4		✓		700	" PLUG DOWN = 1860' ± CALCULATED - MUD
	1200						450	SHUT DOWN - WASH UP TRUCK
	1300							JOB COMPLETE
								THANK YOU
								WARR, DUFF, SINE

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CHARGE TO:
 MURFEN DRILLING Co
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET No 9086

PAGE 1 OF 1

SERVICE LOCATIONS
 1. NESS CITY, KS
 2.
 3.
 4.
 REFERRAL LOCATION

WELL/PROJECT NO. 1-12
 LEASE ROBERG UNITS
 COUNTY/PARISH SHREVEPORT
 STATE KS
 CITY
 DATE 10-4-05
 OWNER SAME

TICKET TYPE
 SERVICE
 SALES
 CONTRACTOR Co Tools
 RIG NAME/NO.
 SHIPPED VIA CT
 DELIVERED TO LOCARDON
 ORDER NO.

WELL TYPE OIL
 WELL CATEGORY DEVELOPMENT
 JOB PURPOSE SQUEEZE PERFORATION
 WELL PERMIT NO.
 WELL LOCATION SULLY, KS - 10, S5, 3/4 E, N5

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE * 104	70		ME		4.00	280.00
578		1			PUMP SERVICE	1	1890	FF		1250.00	1250.00
325		1			STANDARD COMPT	100		S/S		9.00	900.00
278		1			CALCIUM CHLORIDE	2		S/S		35.00	70.00
581		1			SERVICE CHARGE COMPT	100		S/S		1.10	110.00
583		1			DRAWAGE	956	334.6	WT		1.00	334.60

WELLES

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED 10-4-05
 TIME SIGNED 0930
 A.M.
 P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				2944.60
WE UNDERSTOOD AND MET YOUR NEEDS?				
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL 3005.71

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: WANE WANE
 APPROVAL: [Signature]
 Thank You!

SWIFT Services, Inc.

DATE 10-4-05 PAGE NO. 1

DRAWING Co
WELL NO. 1-12
LEASE BORGES WWT
JOB TYPE SQUEEZE PREFORMED
TICKET NO. 9086

TIME	RATE (BPM)	VOLUME (BBLS) (DATE)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
			T	C	TUBING	CASING	
0900							ON LOCATION
							2 3/8 x 5 1/2
							PREFS = 1890'
							PRE = 1778' SQUEEZE
0930		1/2	✓		800		PRE = 1898 - TEST BELOW PREFS - HELD
0935				✓	800		PRE = 1869 - TEST ANNUL - HELD
0945				✓	500		PRE = 1778 - PSE ANNUL - HELD
							MAX 2% OIL IN H ₂ O FOR CSWT
0950	1 1/4	3 1/2	✓		950		2% TEST RATE - FRESH WATER
1004	1 1/4	21	✓		600 ^{AB}		MAX 100 SKS STANDARD 2% OIL
1025							WASH OUT PUMP - LINES
1029	1	0	✓		0		DISPLACE CSWT
	1	1/2	✓		800		"
	1	1	✓		825		"
	3/4	2	✓		850		"
	3/4	6.8	✓		1075		" TUBING CLEAR
1040	3/4	7.8	✓		1100		" 1 BBL BELOW PACKER
1042					750		SHUT IN - WASH UP TOWER
1100	1 1/4	8	✓		1200		STAB - SHUT DOWN
1230					1200		RELEASE PSE - HELD
1233	2	10	✓		250		REVERSE CLEAN
1240							PULL PRE OUT WELL
1320		2 1/2	✓		300		LOAD GASKET - PSE UP - HELD - SHUT IN
							RACK UP
							CONFIDENTIAL
							CONFIDENTIAL
							TOC = 1828 ± 93 SD OUT 2% PREFORMED
1330							JOB COMPLETE
							THANK YOU WALK, DUSTY BRETT

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Port Collar

DENTAL

TREATMENT REPORT FILE



Customer ID	Date	
Customer Muffin Drilling Co.	9-27-05	
Lease Borger Unit	Lease No.	Well # 1-12

Field Order # 11636	Station Pratt	Casing 5/2	Depth	County Sheridan	State KS
Type Job Port collar 5/2	Formation New well	Legal Description 12-92-26w			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5/2	Tubing Size 2 3/8	Shots/Ft		Acid A-con 3% OLC 2% cal set	RATE	PRESS	ISIP	
Depth 2319	Depth 2319	From	To	Pre Pad	Max		5 Min.	11.6 #/gal
Volume	Volume 9	From	To	Pad	Min		10 Min.	
Max Press	Max Press 1200#	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative John Grester	Station Manager Dave Scott	Treater Allen F. Werth
---	-------------------------------	---------------------------

Service Units	125	380	457	346	570
---------------	-----	-----	-----	-----	-----

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0935					ON Loc. w/ Equip. - setup - Plan Job.
1030	1200	1200#			Rig Running, P.C. Tool Test esg.
	500#	500#	2	2 1/2	open P.C. 2 1/2 BPM @ 500#
1040	500#	500#	36	3 1/2	Pump Gel - 36 Bbls no Blow no circ.
1055			2 1/2		Pump down Braden Head 2 1/2 100 PSI
1059	500#	500#	32	3 1/2	Hook Back up to Tbg. pump gel 32 Bbls no Blow or circ. - Get more Gel
1150	100#		5	1 1/2	Pump Down Braden Head - 5 Bbl wt. w/ one side of Head shut - no Blow or circ.
1232			80	4	Pump 80 Bbls gel
	200	200		3	St mix cont 410 SKS A-con
	600#	600#	200		Fin mix
	1000#	1000#	8.5	3	st Disp pump 8.5 Bbls H ² O
	1200#	1200#			Fin Disp. close tool PSI Test OK
	500#	500#	20	3	Run tbg to 2520 pump 20 Bbls + cleanup Hole
					washup Equip - Rackup.
1430					job complete - (no circ. during Job)

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thanks Allen & crew



INVOICE NO.
Date 9-27-05
Customer ID

Subject to Correction
Lease Berger
County Sheridan

FIELD ORDER

Well # 1-12
State KS

Station Pratt
Shoe Joint

CHARGE

Murkin Drilling

Depth 2329 P.C. Formation New well

Casing 5/2 Casing Depth TD

Job Type open P.C. + cmt.

Customer Representative John Gerstner

Treater Allen F. Werth

AFE Number

PO Number

Materials Received by

X John Gerstner

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
Q201	400	A-conc				
C194	1021b	cell Flake				
C310	11281b	calcium chloride				
E100	3.50mi	Heavy vehicle mi 1-way				
E107	400SK	cmt service chg.				
E104	3290 Tm	RIK Del chg.				
R305	1ea	cont Pumper 2001-2005				
E101	175mi	Pickup 1-way				
		Discounted Price				
		Taxes included.		12,568.74		

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INVOICE NO.
Date 9-10-05
Customer ID

Subject to Correction

FIELD ORDER

11622 ✓

CHARGE

Lease **Borger** Well # **1-12** Legal **12-9s-26w**
 County **Sheridan** State **Ks** Station **Pratt**
 Depth **2322 P.C.** Formation **Newwell** Shoe Joint **20.63'**
 Casing **5/2** Casing Depth **4066.01-TP** TD **4175'** Job Type **5/2 L.S.**
 Customer Representative **John Gerstner** Treater **Allen F. Worth**

AFE Number PO Number

Materials Received by **X John Gerstner**

Product Code	QUANTITY	MATERIAL, EQUIPMENT and SERVICES USED	UNIT PRICE	AMOUNT	ACCOUNTING	
					CORRECTION	AMOUNT
D205	1555SKS	AA2	-			
D203	25SKS	60/40 Poz	-			
C195	11716	FLA-322	-			
C321	7741b	GILSONITE	-			
C243	301b	DEFOAMER	-			
C221	8591b	SALT (FINE)	-			
C244	52 lb	cement Friction Reducer	-			
C303	500gal	super Flush	-			
F101	10ea	Turbolizer cement 5 1/2"	-			
F143	1ea	Top Rubber Plug 5 1/2"	-			
F191	1ea	Guide Shoe Reg. 5 1/2"	-			
F231	1ea	Flapper type insert Float valve	-			
F292	10ea	cmt scratchers Rotating type	-			
F121	1ea	Basket 5 1/2"	-			
F800	1ea	Thread Lock compound Kit	-			
F261	1ea	cmt Port collar 5 1/2"	-			
E101	350mi	Heavy vehicle mi 1-way	-			
E107	180SK	cmt ser. chg.	-			
E104	1470 tm	BLK Del. chg.	-			
R209	1ea	csg cmt pumper 4001-4500'	-			
R701	1ea	cmt Head Rental	-			
R702	1ea	csg swivel Rental	-			
E101	175mi	pickUp mi 1-way	-			
		Discounted Price				
		TAX included		13,076.10		

CONFIDENTIAL WELL FILE

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TREATMENT REPORT



Customer ID	Date	
Customer Murtov Drly Co. Inc.	9-10-05	
Lease Borger	Lease No. 1	Well # 1-17

Field Order #	Station Pratt	Casing 5 1/2"	Depth 4166.01 TP	County Sheridan	State KS
Type Job 5 1/2 L.S.	Formation New well	Legal Description 12-95-76W			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2				155 KG AA2 5% CALS +				Max
Depth 4166.01 TP	Depth	From	To	Pre Pad 12% Deformer.				5 Min.
Volume 98.6 BBLs	Volume	From	To	Pad 8% FLA-322, 10% salt				10 Min.
Max Press	Max Press	From	To	Frug 5 lb/gal.				15 Min.
Well Connection P.C.	Annulus Vol.	From	To	25 SKS 60/40 P02 - Plug RH				HHP Used
Plug Depth	Packer Depth	From	To	Flush 12 BBL super Flush				Annulus Pressure
								Gas Volume
								Total Load

Customer Representative John Gerstner	Station Manager Dave Scott	Treater Allen F. Werth
--	-------------------------------	---------------------------

Service Units	125	228	303	575
---------------	-----	-----	-----	-----

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0400					called out
0630					on loc setup + Plan Job. Rig Laying down D.
0845					out of Hole w/ D.P. Rig up to Run 5 1/2 csg. 15.5%
					st. Pipe - S.T. 20.63 w/ guide shoe - ISFU
					cent - 1-5-9-14-20-26-32-42-49-55
1000					P.C. out 44 th collar. Basket 44 th P.V. (P.C. 232)
1055					Break cir w/ 65 Joints in hole - cir 15m.
1118					csg on Bot. Tag 4175 - Drop Ball
1222			5		Pickup to 4166 Hook up + cir. mud. Rotate P.P
			12		st 5 BBLs Flush H2O Rotate Pipe
					Pump 12 BBLs super Flush
					Pump 3 BBLs Flush H2O
					Plug Rat Hole 25 SKS
1240					st mix 155 SKS AA-2 - Plug OFF Rec.
					unplug SRK
1335	200 ^{psi}			3	st mix
			40		Fin mix - wash out P.L. Release Plug
	400 ^{psi}			4	st D.sp. - CAP 99 BBLs
1405	1500 ^{psi}		99		Fin Disp. - Plug down - Release combdr
	1500 ^{psi}				Re Pressure - Shut In
					wash up Equip. Job complete