

KCC  
AUG 30 2005

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

CONFIDENTIAL

Form ACO-1  
September 1999  
Form Must Be Typed

CONFIDENTIAL

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 32119  
Name: Northern Natural Gas  
Address: 1111 S. 103rd Street  
City/State/Zip: Omaha, NE 68124  
Purchaser: \_\_\_\_\_  
Operator Contact Person: Michael Loeffler  
Phone: (402) 398-7103  
Contractor: Name: Sterling Drilling  
License: 5142  
Wellsite Geologist: Frank S. Mize

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     SWD     SLOW     Temp. Abd.  
 Gas     ENHR     SIGW  
 Dry     Other Observation

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

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>6/3/05</u>	<u>6/6/05</u>	<u>7/27/05</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 151-22217-00-00  
County: Pratt  
NW-NW-NW-SE Sec. 13 Twp. 27 S. R. 11  East  West  
2408 feet from S N (circle one) Line of Section  
2386 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Trujillo Well #: 13-31  
Field Name: Cunningham

Producing Formation: Viola  
Elevation: Ground: 1789 Kelly Bushing: 1811  
Total Depth: 4550 Plug Back Total Depth: 4454  
Amount of Surface Pipe Set and Cemented at 8 5/8" at 1525 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1525  
feet depth to surface w/ 700 sx cmt.  
(500 sx 65/35 pozmix and 200 sx class "A")

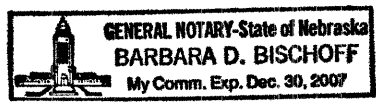
Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit) ALT I w/ Han  
LF 24-07  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Hamm & Phillips  
Lease Name: Haskins 1-22 SWD License No.: OCC 240671  
Quarter \_\_\_\_\_ Sec. 22 Twp. 27 S. R. 8  East  West  
County: Grant, OK 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: Michael J. Feibler  
Title: Director of Centbooks Date: 8/16/05  
Subscribed and sworn to before me this 16 day of August,  
2005.  
Notary Public: Barbara D. Bischoff  
Date Commission Expires: Dec. 30, 2007



**KCC Office Use ONLY**  
 Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
**RECEIVED**  
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ORIGINAL

Side Two

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Operator Name: Northern Natural Gas Lease Name: Trujillo Well #: 13-31  
Sec. 13 Twp. 27 S. R. 11  East  West County: Pratt

**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)

Log Formation (Top), Depth and Datum  Sample  
Name Top Datum

List All E. Logs Run: DIFL/CDL/CN/Sonic/GR/CCL

Completion: DVRT/CBL

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
Conductor	17 1/2"	13 3/8"	48	125'	class "A"	175	
Surface	12 1/4"	8 5/8"	24	1525'	65/35 pozmix Class "A"	700	
Production	7 7/8"	5 1/2"	15.5	4505'	65/35 pozmix ASC, Class "A"	700	DV tool at 1804 -1806

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				

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	4350-4370 (Viola)	Acid 2000 gal 15% HCl	4350-4370

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	4331	4331	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
7/26/05		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> observation <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
N/A					

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 4350-4370 Viola  
Non-applicable

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AUG 30 2005

ORIGINAL

CONFIDENTIAL ALLIED CEMENTING CO., INC. 20151

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

SERVICE POINT: M.L.

DATE 6-3-05 SEC. 13 TWP. 27 RANGE 11 CALLED OUT 4:00 pm ON LOCATION 5:00 pm JOB START 6:15 pm JOB FINISH 6:45 pm LEASE Trojillo WELL # 13-31 LOCATION Cunningham, KS 2 west to COUNTY Pratt STATE KS OLD OR NEW (Circle one) Co. line 3 north, 1/2 west North into

CONTRACTOR Sterling #4 TYPE OF JOB Conductor HOLE SIZE 17 1/2" T.D. 135' CASING SIZE 13 3/8 48.00 DEPTH 127.57 TUBING SIZE DEPTH DRILL PIPE 4 1/2" DEPTH 135' TOOL None DEPTH 108' PRES. MAX MINIMUM MEAS. LINE SHOE JOINT 20 CEMENT LEFT IN CSG. 20' PERFS. DISPLACEMENT 1.6314 bbl fresh h2o

OWNER CEMENT AMOUNT ORDERED 175sx Class A + 3% cc + 2% logel

EQUIPMENT PUMP TRUCK # 318 CEMENTER Mike Pucker # 365 HELPER Tracy Cushman BULK TRUCK DRIVER J. Freeman BULK TRUCK DRIVER

COMMON A 175sx @ POZMIX @ GEL 3.5x @ CHLORIDE 6.5x @ ASC @ HANDLING 134sx @ MILEAGE 184 x .055 =

REMARKS:

6" Pipe on bottom, break Circ. 6:15 pm Start Prod. Cement. 175 sx A + 3% cc + 2% logel @ 15.2 weight. 300 psi. 1 1/2 min. @ 35 pm Stop Pumps Release wooden Plug Start Disp. 300 psi. 4 1/2 min. @ 1.6314 bbl fresh h2o Disp. Stop Pumps leave 20' Cement in casing as shoe 300 psi left on casing. Cement o:d Circulate! T & G Mfg

CHARGE TO: Northern Natural gas STREET CITY STATE ZIP

SERVICE

DEPTH OF JOB 128' PUMP TRUCK CHARGE EXTRA FOOTAGE @ MILEAGE 15 @ MANTON Noney Coveralls @ head Rental @ See material @

TOTAL

PLUG & FLOAT EQUIPMEN

13 3/8 Wooden Plug @ @ @ @

TOTAL

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KCC WICHITA

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 Dan Murta

TAX TOTAL CHARGE DISCOUNT IF PAID IN 30 DAYS Dan Murta PRINTED NAME

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ORIGINAL

AUG 3<sup>rd</sup> 2005

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

CONFIDENTIAL

SERVICE POINT:  
MEDICINE LODGE

DATE <u>6-6-05</u>	SEC. <u>13</u>	TWP. <u>27S</u>	RANGE <u>11W</u>	CALLED OUT <u>2:30 pm</u>	ON LOCATION <u>3:30 pm</u>	JOB START <u>6:55 pm</u>	JOB FINISH <u>8:30 pm</u>
Trujillo LEASE <u>PARK</u>		WELL # <u>13-31</u>	LOCATION <u>CUNNINGHAM, KS, 2W, 4N, 12W</u>		COUNTY <u>MAHAR</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)			W/INTO				

CONTRACTOR STERLING #4  
 TYPE OF JOB SURFACE CASING  
 HOLE SIZE 12 1/4" T.D. 1,535'  
 CASING SIZE 8 5/8" DEPTH 1,527'  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2" DEPTH  
 TOOL DEPTH  
 PRES. MAX 750 MINIMUM 100  
 MEAS. LINE SHOE JOINT 44.70  
 CEMENT LEFT IN CSG. 44.70  
 PERFS.  
 DISPLACEMENT 94 bbl. FRESH WATER

OWNER NORTHERN NATURAL GAS  
 CEMENT  
 AMOUNT ORDERED 500 SX 6.513516 + 3% cc + 1/4" FLO-SEAL, 200 SX CLASS A + 2% cc + 2% GEL, 300# SUGAR

EQUIPMENT  
 PUMP TRUCK CEMENTER BILL M  
 # 360 HELPER LOAKY D  
 BULK TRUCK  
 # 359 DRIVER DENNY S.  
 BULK TRUCK  
 # 364 DRIVER MICHAEL C.

COMMON 200 A @  
 POZMIX @  
 GEL 4 @  
 CHLORIDE 21 @  
 ASC @  
 LIFEWEIGHT 500 @  
 FLO-SEAL 125# @  
 SUGAR 300# @  
 HANDLING 756 @  
 MILEAGE 756X15X.055

REMARKS:

PIPE IN BOTTOM, BREAK CIRCULATION, PUMP (HEAD) 500 SX 6.513516 + 3% cc + 1/4" FLO-SEAL + (TUB) 200 SX CLASS A + 2% cc + 2% GEL, STOP PUMPS, RELEASE PLUG, START DISPLACEMENT, SEE LIFT, SLOW RATE, PUMP PLUG, FLOAT HELD, DISPLACE WITH 94 bbl. FRESH WATER

T+C Mfg

CHARGE TO: NORTHERN NATURAL GAS  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL \_\_\_\_\_

SERVICE

DEPTH OF JOB 1527'  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE @  
 MILEAGE 15 @  
 HEAD RENT 1 @  
 NOMEX COVERS @

TOTAL \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

MANIFOLD @  
8 5/8 GUIDE SHOE W/INT @  
8 5/8 AFU W/INT 1 @  
8 5/8 CENTRALIZERS 8 @  
8 5/8 MUDGUM PLUG 1 @  
8 5/8 BASKET 1

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_  
 TOTAL CHARGE 1027.70  
 DISCOUNT 1027.70 IF PAID IN 30 DAYS

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.

ANY APPLICABLE TAX  
 WILL BE CHARGED  
 UPON INVOICING

SIGNATURE [Signature]

PRINTED NAME Dan Munt

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 SEP 08 2005  
 KCC WICHITA

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AUG 1<sup>st</sup> 2005

ORIGINAL

ALLIED CEMENTING CO., INC. 20430

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

SERVICE POINT:  
Med. Co. 666

DATE <u>6-15-05</u>	SEC. <u>13</u>	TWP. <u>27S</u>	RANGE <u>11W</u>	CALLED OUT <u>9:00AM</u>	ON LOCATION <u>3:00PM</u>	JOB START <u>12:05AM</u>	JOB FINISH <u>1:00AM</u>
LEASE <u>TRUJILLO</u>	WELL # <u>13-21</u>	LOCATION <u>CUNNINGHAM, KS 2W</u>	COUNTY <u>PRATT</u>	STATE <u>KANSAS</u>			
OLD OR NEW (Circle one) <u>NEW</u>				<u>4N, 6W, N1/2</u>			

CONTRACTOR <u>STERLING DRILG #4</u>	OWNER <u>NORTHERN NATURAL GAS</u>
TYPE OF JOB <u>BOTTOM STAGE</u>	
HOLE SIZE <u>7 7/8"</u>	T.D. <u>4550'</u>
CASING SIZE <u>5 1/2" 15.5#</u>	DEPTH <u>4505'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>DV 900L</u>	DEPTH <u>1800'</u>
PRES. MAX <u>1800#</u>	MINIMUM
MEAS. LINE	SHOE JOINT <u>44'</u>
CEMENT LEFT IN CSG.	
PERFS.	

DISPLACEMENT <u>6S WATER / 42 MUD</u>	CEMENT
EQUIPMENT	AMOUNT ORDERED <u>500 GALLONS ASF</u>
	<u>150 3/4 6S:35:6 + 1/4# FLS + .5% CD-31 + D</u>
	<u>200 3/4 6S:35:6 + 1/4# FLS</u>
	<u>150 3/4 ASF + 5# K15 + .7% GAS BLOCK</u>
	COMMON _____ @
	POZMIX _____ @
	GEL _____ @
	CHLORIDE _____ @
	ASC <u>150</u> @
	ALW <u>350</u> @
	FLO-SEAL <u>88#</u> @
	KOL-SEAL <u>750#</u> @
	CD-31 <u>65#</u> @
	GAS BLOCK <u>99#</u> @
	ASF <u>500</u> @
	DEFAMER <u>20#</u> @
	SUGAR <u>360#</u> @
	HANDLING <u>568</u> @
	MILEAGE <u>568 x 15</u> @

PUMP TRUCK # <u>360-302</u>	CEMENTER <u>KEVIN BRUNGARDI</u>
BULK TRUCK # <u>356-252</u>	HELPER <u>LARRY DREILING</u>
BULK TRUCK # <u>259-241</u>	DRIVER <u>LARRY FREEMAN</u>
# <u>372</u>	DRIVER <u>STEVE TURLEN</u>
	<u>DENNY SNYDER</u>

REMARKS:

SEE JOB LOG

TOTAL \_\_\_\_\_

SERVICE

DEPTH OF JOB <u>4505'</u>	
PUMP TRUCK CHARGE _____	<u>1</u>
EXTRA FOOTAGE _____	@
MILEAGE <u>30</u>	@
MANIFOLD _____	@
<u>HEAD RENTAL</u>	@
<u>STAND BY PUMP</u>	@ <u>2</u>

TOTAL \_\_\_\_\_

CHARGE TO: NNG / T+C MFG

STREET P.O. Box 225

CITY GREAT BEND STATE KANSAS ZIP 67530

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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.

PLUG & FLOAT E

<u>1-GUIDE SLIDE</u>	
<u>1-BET SAVER COLLAR</u>	@
<u>1-STOP RING</u>	@
<u>1-DV TOOL</u>	@
<u>2-BASKETS</u>	@
<u>15-TURBOLEZERS</u>	@
<u>15-SCRATCHERS</u>	@

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE ~~568~~ \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE [Signature]

Dan Munte  
PRINTED NAME

CONFIDENTIAL

ORIGINAL

ALLIED CEMENTING CO., INC.

20131

KCC

AUG 30 2005

CONFIDENTIAL

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

SERVICE POINT: Med. Coode

DATE 6-16-05	SEC 13	TWP. 27S	RANGE 11W	CALLED OUT	ON LOCATION	JOB START 6:00 AM	JOB FINISH 6:45 AM
LEASE MUTILLO	WELL #13-31		LOCATION CUNNINGHAM, KS 2W		COUNTY PRAT	STATE KANSAS	
OLD OR NEW (Circle one) <input checked="" type="radio"/> NEW			4N, 12W, N1/2				

CONTRACTOR STERLING DRILL #4 OWNER NORTHERN NATURAL GAS

TYPE OF JOB TOP STAGE

HOLE SIZE 7 7/8" T.D.

CASING SIZE 5 1/2" 15.5" DEPTH 1800'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL DV TOOL DEPTH 1800'

CEMENT

AMOUNT ORDERED 900 BAGS ASF

300# 60:40:4 + 14# PRO-SEAL

100# CLASS A + 2 1/2 BEL

PRES. MAX 1600# MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. \_\_\_\_\_

PERFS. \_\_\_\_\_

DISPLACEMENT 43 3/4 BBLs WATER

EQUIPMENT

COMMON A 280 @ \_\_\_\_\_

POZMIX 120 @ \_\_\_\_\_

GEL 10 @ \_\_\_\_\_

CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

ASC \_\_\_\_\_ @ \_\_\_\_\_

PRO-SEAL 75# @ \_\_\_\_\_

ASF 500 @ \_\_\_\_\_

PUMP TRUCK CEMENTER KEVIN BRONDAZI

# 360-300 HELPER LARRY FREELAN

BULK TRUCK

# 356-252 DRIVER LARRY FREELAN

BULK TRUCK

# 353-314 DRIVER RON GILLEY

372 DENNY SNYDER

HANDLING 413 @ \_\_\_\_\_

MILEAGE 413 X 15 6195

REMARKS:

SEE JOB LOG

SERVICE

DEPTH OF JOB 1800'

PUMP TRUCK CHARGE \_\_\_\_\_

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILEAGE \_\_\_\_\_ @ \_\_\_\_\_

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

CHARGE TO: NN6 / T+C MFG.

STREET P.O. Box 225

CITY GREAT BEND STATE KANSAS ZIP 67530

TOTAL

PLUG & FLOAT EQUIPMENT

NOMEX COVERALLS @ \_\_\_\_\_

PAD MATERIAL @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL

TAX \_\_\_\_\_

TOTAL CHARGE ~~1200.00~~

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

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SIGNATURE [Signature]

Don Munte

PRINTED NAME

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ORIGINAL   
**BAKER  
HUGHES**

**Baker Atlas**

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Northern Natural Gas Company, Trujillo No.13-31.

Review of Cement Bond Log ran on July 25 - 2005.

The Trujillo No.13-31 was cemented to surface. A two stage cement job was used. The 1<sup>st</sup> stage cemented with 350 sks. of 65/35 Pozmix & 150 sks.ASC.The 2and stage cemented through a D.V.Tool with 300 sks.60/40 Pozmix & 100 sks. Class A. A uniform sheath of good compressive strength cement exist on this casing. This coverage starts at the bottom of the 5 1/2 casing and continues up to 2100' where an interval up to 1860' lacks a good pipe bond. The area from 1860' up thru the DV Tool and up hole looks very good. Fluid level was at 95'.Tool will not read past this point.A very good hydraulic seal exist on this casing. It appears to be sufficient enough to keep any migration of fluid up hole from occurring.

Alan Esterline



Region Sales Engineer/Project Manager.

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SEP 18 2005

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