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KCC WICHITA

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC

AUG 06 2005

Form ACO-1  
September 1999  
Form Must Be Typed

CONFIDENTIAL

ORIGINAL

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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. \_\_\_\_\_

5/13/2005 5/26/05 7/20/05  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 095-21963-00-00  
County: Kingman  
N/2 - N/2 - N/2 - N/2 Sec. 18 Twp. 27 S. R. 10  East  West  
123 feet from S N (circle one) Line of Section  
2650 feet from E W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE NW SW  
Lease Name: Park Well #: 18-21  
Field Name: Cunningham

Producing Formation: Viola  
Elevation: Ground: 1780 Kelly Bushing: 1793  
Total Depth: 4550 Plug Back Total Depth: 4445  
Amount of Surface Pipe Set and Cemented at 8 5/8" at 1504 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from 1504  
feet depth to surface w/ 700 sx cmt.  
(500 65/35 pozmix & 200 sx cmt. class "A")

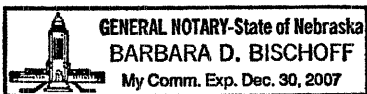
Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit) ALT I WHW  
4-24-07  
Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used Evaporation

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. Loeffler  
Title: Director of Certifications Date: 8/10/2005  
Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_,  
20 05.  
Notary Public: Barbara D. Bischoff  
Date Commission Expires: Dec. 30, 2007



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

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Side Two

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Operator Name: Northern Natural Gas Lease Name: Park Well #: 18-21  
Sec. 18 Twp. 27 S. R. 10  East  West County: Kingman

**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/CC/L/CBL

Completion: DVRT/CBL

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CASING RECORD <input checked="" 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"	135	
Surface	12 1/4"	8 5/8"	24	1505'	65/35 pozmix Class "A"	700	
Production	7 7/8"	5 1/2"	15.5	4504'	65/35 pozmix ASC, Class "A"	900	DV tool at 1798-1800

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	4344-4364 (Viola)	Acid 2000 gal 15% HCl	4344-4364

TUBING RECORD		Size	Set At	Packer At	Liner Run
		2 3/8"	4305	4305	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr.		Producing Method			
7/19/05		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> observation <input checked="" 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.)  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify) \_\_\_\_\_  
METHOD OF COMPLETION \_\_\_\_\_  
Production Interval 4350-4370 Viola  
Non-applicable

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ALLIED CEMENTING CO., INC. 20041

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

SERVICE POINT:  
Medicine Lodge

KCC  
AUG 08 2005

DATE	5-13-05	SEC.	1B	TWP.	27S	RANGE	10W	CALLED OUT	1:00 P.M.	ON LOCATION	2:30 P.M.	JOB START	9:15 P.M.	JOB FINISH	9:30 P.M.
LEASE	PARK		WELL #	18-21		LOCATION	Cunningham 2W 4N		COUNTY	Pott		STATE	KS		
OLD OR NEW	(Circle one)		NEW		1/2 E 9/10 N										

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CONTRACTOR Sterling #4 OWNER Northern Natural  
 TYPE OF JOB Conductor  
 HOLE SIZE 17 1/2 T.D. 120 CEMENT  
 CASING SIZE 13 3/8 DEPTH 131.29 AMOUNT ORDERED 135 sx A+3% cct  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_ 2% Gel  
 DRILL PIPE 4 1/2 DEPTH 120  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 300 PSI MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 15 FT  
 CEMENT LEFT IN CSG. 15 FT  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT Fresh Water

EQUIPMENT

PUMP TRUCK CEMENTER David W.  
 # 352 HELPER Tracy C.  
 BULK TRUCK  
 # 363 DRIVER Larry F.  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON 135 A @  
 POZMIX \_\_\_\_\_ @  
 GEL 3 @  
 CHLORIDE 5 @  
 ASC \_\_\_\_\_ @  
 \_\_\_\_\_ @  
 \_\_\_\_\_ @  
 \_\_\_\_\_ @  
 \_\_\_\_\_ @  
 \_\_\_\_\_ @  
 HANDLING 143 @  
 MILEAGE 15 x 143 x .05 @  
Min Chg. TOTAL

REMARKS:

Pipe on bottom break c/w pump  
5 BBLs, Fresh Water Mix 135 sx  
A+3% cct + 2% Gel Shot Down  
Release Plug Displace w/ Fresh  
Water Shut in at 18 1/4 BBLs, out  
Cement Did C/P Wash up  
Rig Down.

1/2 T + C Drfg

CHARGE TO: Northern Natural Gas

STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 131  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @  
 MILEAGE 15 @  
~~MANIP~~ Head Rent @  
 Nonex Coveralls @  
 PAD MATERIAL @

TOTAL

PLUG & FLOAT EQUIPMENT

13 3/8"  
1-Wooden Plug @  
 \_\_\_\_\_ @  
 \_\_\_\_\_ @  
 \_\_\_\_\_ @  
 \_\_\_\_\_ @

TOTAL

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ 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]

[Signature] PRINTED NAME

(BID 2-11-05)

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ALLIED CEMENTING CO., INC.

ORIGINAL

20542

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

SERVICE POINT:

Medicine LDC

KCC  
AUG 18 2005

CONFIDENTIAL

DATE	5-16-05	SEC.	18	TWP.	27S	RANGE	10W	CALLED OUT	10:30AM.	ON LOCATION	11:30AM	JOB START	8:00PM.	JOB FINISH	9:00PM
LEASE	PARK	WELL #	18-21	LOCATION	Cunningham 2W 4N	COUNTY	PLATT	STATE	KS.						
OLD OR (NEW)	(Circle one)														
		1/2 E S/INTO													

CONTRACTOR STERLING #4  
 TYPE OF JOB SURFACE C  
 HOLE SIZE 12 1/4 T.D. 1525  
 CASING SIZE 8 5/8 DEPTH 1506  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2 DEPTH 1525  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX SCOPSE MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.81  
 CEMENT LEFT IN CSG. 42.81 FT  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT Fresh Water 93 1/2 BBS

OWNER Northern Natural Gas  
 CEMENT  
 AMOUNT ORDERED 500SX 65:35:6 + 3% CC + 1/4" Fl-Seal 200SX A + 2% CC + 2% Gel 2#0 # Sugar  
 COMMON 200 A @  
 POZMIX \_\_\_\_\_ @  
 GEL 4 @  
 CHLORIDE 21 @  
 ASC \_\_\_\_\_ @  
 ALW 500 @  
 Fl Seal 125 # @  
 Sugar 240 # @  
 HANDLING 756 @  
 MILEAGE 15 X 756 X.C

EQUIPMENT

PUMP TRUCK CEMENTER David W.  
 # 352 HELPER Tracy C.  
 BULK TRUCK  
 # 359 DRIVER Larry F.  
 BULK TRUCK  
 # 364 DRIVER Jerry C.

REMARKS:

Pipe on bottom break line  
 Pump 500sx 65:35:6 + 3% CC  
 1/4" Fl-Seal Pump 200sx A +  
 2% CC + 2% Gel shut down  
 Release Plug Displace w/ Fresh  
 water slow rate bump plug  
 float did hold cement did not  
 wash up Rig down.  
 90 T+C mfg.

CHARGE TO: Northern Natural Gas  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 1506  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @  
 MILEAGE 15 @  
 MANIFOLD Head Rent @  
Nomex Coveralls @

TOTAL

TOTAL

PLUG & FLOAT EQUIPMENT

1-Guide Shoe <sup>weld on</sup> @  
 1-AFU Insert @  
~~1-Basket~~ @  
 2-Thread lock @  
 10-Centralizers @  
 1-Rubber Plug @

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

SIGNATURE David M. [Signature] David M. [Signature]  
 (Bid - 2-11-05) PRINTED NAME

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ORIGINAL

ALLIED CEMENTING CO., INC. 20439

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

SERVICE POINT:  
MEDICINE CREEK  
5-27-05 5-27-05

DATE <u>5-26-05</u>	SEC. <u>18</u>	TWP. <u>27S</u>	RANGE <u>10W</u>	CALLED OUT <u>11:00 AM</u>	ON LOCATION <u>3:00 PM</u>	JOB START <u>AM</u>	JOB FINISH <u>3:40 PM</u>
LEASE <u>PARK</u>	WELL # <u>18-21</u>	LOCATION <u>CUNNINGHAM, KS</u>	COUNTY <u>KENOSHA</u>	STATE <u>KANSAS</u>			
OLD OR <u>NEW</u> (Circle one)		<u>4N, 1 1/2 W, 9/INTO</u>					

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CONTRACTOR <u>STERLING #4</u>	OWNER <u>NORTHERN NATURAL GAS</u>
TYPE OF JOB <u>BOTTLE STAGE</u>	
HOLE SIZE <u>7 7/8" T.D. 4550'</u>	CEMENT
CASING SIZE <u>5 1/2" 15.5# DEPTH 4503'</u>	AMOUNT ORDERED <u>500 GALS ASF</u>
TUBING SIZE _____ DEPTH _____	<u>150# ALW + 1/4" FLS + 5% CD-31 + DEF/</u>
DRILL PIPE _____ DEPTH _____	<u>200# ALW + 1/4" FLO-SEAL</u>
TOOL _____ DEPTH _____	<u>150# ASC + 5# KOL-SEAL + 11% GAS/L</u>
PRES. MAX <u>1700#</u> MINIMUM _____	COMMON _____ @ _____
MEAS. LINE _____ SHOE JOINT <u>49'</u>	POZMIX _____ @ _____
CEMENT LEFT IN CSG. _____	GEL _____ @ _____
PERFS. _____	CHLORIDE _____ @ _____
DISPLACEMENT <u>65 WATER / 45% MWD</u>	ASC _____ 150 @ _____

EQUIPMENT

# 372

PUMP TRUCK	CEMENTER <u>KEVIN BRUNARDI</u>
# <u>352</u>	HELPER <u>CARL BALDING</u>
BULK TRUCK	
# <u>363-314</u>	DRIVER <u>RON BILEY</u>
BULK TRUCK	
# <u>381-290</u>	DRIVER <u>JERRY CUSHENBERY</u>

ALW	350	@
FLO-SEAL	BB#	@
KOL-SEAL	750#	@
GAS BLOCK	99#	@
CD-31	65#	@
DEFORMER, A	30#	@
ASF	500 GAL.	@
SUGAR	300#	@
HANDLING	568	@
MILEAGE	568 X 15	@

REMARKS:

SEE JOB LOG

SERVICE

DEPTH OF JOB	<u>4503'</u>
PUMP TRUCK CHARGE	_____
EXTRA FOOTAGE	_____ @ _____
MILEAGE	<u>30</u> @ _____
MANIFOLD	_____ @ _____
HEAD RENTAL	_____ @ _____
STAND BY PUMP	_____ @ _____

T+C Mfg.

CHARGE TO: NORTHERN NATURAL GAS

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL

PLUG & FLOAT EQUIPMENT

- 1 - GUIDE SHOE
- 1 - FLOAT COLLAR @ \_\_\_\_\_
- 1 - DV TOOL @ \_\_\_\_\_
- 2 - BASKETS @ \_\_\_\_\_
- 16 - TURBOLIZERS @ \_\_\_\_\_
- 15 - SCRATCHERS @ \_\_\_\_\_
- 1 - STOP RING

TOTAL

TAX \_\_\_\_\_

TOTAL CHARGE 568.00

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

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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 MUALTA

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ALLIED CEMENTING CO., INC.

ORIGINAL

20440

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

SERVICE POINT: MEDICINE LODGE

KCC  
AUG 06 2005

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DATE <u>5-27-05</u>	SEC. <u>18</u>	TWP. <u>27S</u>	RANGE <u>10W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:30 AM</u>	JOB FINISH <u>9:10 AM</u>
LEASE <u>PARK</u>	WELL # <u>18-21</u>	LOCATION <u>CUNNINGHAM, KS</u>	COUNTY <u>KENNESAW</u>	STATE <u>KANSAS</u>			
OLD OR (NEW) (Circle one)		<u>4N, 1 1/2 W, S INTO</u>					

CONTRACTOR STERLING #4 OWNER NORTHERN NATURAL GAS

TYPE OF JOB TOP STAGE

HOLE SIZE 7 7/8" T.D. 4550'

CASING SIZE 5 1/2" 15.5# DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DV 700L DEPTH 1804'

PRES. MAX 2300 MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. Ø

PERFS.

DISPLACEMENT 43 BALS WATER

EQUIPMENT

# 392

PUMP TRUCK CEMENTER KEVIN BRUNARDI

# 352 HELPER CARL BALDWIN

BULK TRUCK

# 353-250 DRIVER JERRY CUSHENBERY

BULK TRUCK

# 363-314 DRIVER RON GELLEY

CEMENT

AMOUNT ORDERED 500 BAGS ASE

300 SY 60:40:4 + 1/4" FLO-SEAL

100 SY CLASS A + 2% BEL

COMMON A 280 @

POZMIX 120 @

GEL 12 @

CHLORIDE @

ASC @

FLO-SEAL 75# @

ASE 500 BAGS @

SUGAR 300# @

HANDLING 415 @

MILEAGE 415 X 15 @

REMARKS:

SEE JOB LOG

T & C Mfg.

CHARGE TO: NORTHERN NATURAL GAS

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL

SERVICE

DEPTH OF JOB 1804'

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

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

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

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

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL

PLUG & FLOAT EQUIPMENT

NONEX COVERALLS @

ABSORBENT PADS @

@

@

@

TOTAL

TAX \_\_\_\_\_

TOTAL CHARGE ~~4500~~

DISCOUNT ~~400~~ IF PAID IN 30 DAYS

SIGNATURE [Signature]

DAN MUKTA  
PRINTED NAME

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Baker Atlas

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Northern Natural Gas Company, Park No. 18-21.

Review of Cement Bond Log ran on July 15 - 2005.

The Park No. 18-21 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 2<sup>nd</sup> 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 thru the DV Tool and up hole looks very good. Fluid level was at 25'. 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

A handwritten signature in cursive script, appearing to read 'Alan Esterline'.

Region Sales Engineer/Project Manager.