

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15 **ORIGINAL** 145-21462-0000

County Pawnee

SW - NW - NW Sec. 3 Twp. 23s Rge. 17w X ^E_W

990 Feet from S (circle one) Line of Section

330 Feet from E (circle one) Line of Section

Footage Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

11-3 Cross Well # 11-3

Garfield Field Name

None Production Formation

2055 Elevation: Ground 2063 KB 2063

4250 Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 351.11 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Per A, 8-15-'00 use
(Date must be collected from the Reserve Pit)

Chloride content 23,000 ppm Fluid volume 200 bbls

Dewatering method used Haul free fluid

Location of fluid disposal if hauled offsite:

Operator Name GEE OIL SERVICE

Lease Name Hyter License No. 32482

NE/4 Quarter Sec. 12 Twp. 24s S Rng. 15w X ^E_W

County Stafford Docket No. D 19913

R

Operator: License # 31664

Name: NORTHWEST WELL SERVICE, INC.

Address 17509 County Road 14 7-7-00

City/State/Zip Fort Morgan, CO 80701

Purchaser: _____

Operator Contact Person: Frank Hutto

Phone (303) 292-4051

Contractor: Name: Discovery Drilling Co., Inc.

License: 31548

Wellsite Geologist: Bruce Becker

Designate Type of Completion
X New Well _____ Re-Entry _____ Workover _____

Oil _____ SWD _____ SLOW _____ Temp. Abd.
Gas _____ ENHR _____ SIGW _____
X Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening _____ Re-perf. _____ Conv. to Inj/SWD _____
Plug Back _____ PBTD _____
Cemented _____ Docket No. _____
Dual Completion _____ Docket No. _____
Other (SWD or Inj?) Docket No. _____

5/4/2000 5/12/2000 5/13/2000
Spud Date Date Reached TD Completion Date

CONSERVATION DIVISION
Wichita, Kansas

RECEIVED
JUN 17 2000
STATE CORPORATION COMMISSION

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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 Frank Hutto

Title Owner Date 6/4/2000

Subscribed and sworn to before me this 5 day of June

Notary Public Janyat Blacell

Date Commission Expires 5/23/2004

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C X Wireline Log Received
C X Geologist Report Received
Distribution
KCC _____ SWD/Rep _____ NGPA _____
KGS _____ Plug _____ Other _____
(Specify)

X

Operator Name NORTHWEST WELL SERVICE, INC. Lease Name Cros Well # 11-3

Sec. 3 Twp. 23S Rge. 17W East West County Pawnee

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

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:
*Dual Induction,
 Comp. Density Newton.*

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
Surface Pipe	12 1/4	8 5/8	24	351.11	60/40Poz	225	2%Gel&3%CC

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD

Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. P&A 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) _____

Production Interval _____

BRUCE D BECKER

CONSULTING GEOLOGIST

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>H&R WELL SERVICE</u>	ELEVATIONS
LEASE <u>CROSS #11-3</u>	KB <u>2063</u>
FIELD <u>GARFIELD</u>	DF _____
LOCATION <u>SW NW NW</u>	GL <u>2055</u>
SEC <u>3</u> TWSP <u>23S</u> RGE <u>17W</u>	Measurements Are All From <u>KB</u>
COUNTY <u>PAWNEE</u> STATE <u>KANSAS</u>	
CONTRACTOR <u>DISCOVERY DRLG #2</u>	CASING
SPUD <u>5/4/00</u> COMP <u>5/12/00</u>	SURFACE <u>341 8 5/8 225SX</u>
RTD <u>4250</u> LTD <u>4242</u>	PRODUCTION _____
MUD UP _____ TYPE MUD _____	ELECTRICAL SURVEYS
	<i>Induction B-Ray Density/Neutron</i>
SAMPLES SAVED FROM <u>2050</u> TO <u>TD</u>	
DRILLING TIME KEPT FROM <u>2000</u> TO <u>TD</u>	
SAMPLES EXAMINED FROM <u>2050</u> TO <u>TD</u>	
GEOLOGICAL SUPERVISION FROM <u>2000</u> TO <u>TD</u>	
GEOLOGIST ON WELL _____	

FORMATION TOPS	LOG	SAMPLES
<i>Hecington</i>	<i>2103</i>	<i>2104</i>
<i>Canasil Grove</i>	<i>2441</i>	<i>2442</i>
<i>Tackio</i>	<i>3000</i>	<i>3001</i>
<i>Hecbore Shale</i>	<i>3592</i>	<i>3591</i>
<i>Lansing/Kansas City</i>	<i>3704</i>	<i>3704</i>
<i>Base Kansas City</i>	<i>3987</i>	<i>3988</i>
<i>Chester Sd</i>	<i>4124</i>	<i>4119</i>
<i>Mississippian</i>	<i>4144</i>	<i>4140</i>
<i>Kinderhook</i>	<i>4164</i>	<i>4162</i>
<i>Viola</i>	<i>4234</i>	<i>4234</i>

	3		

REMARKS Based upon the results of DST #1, #2 & #3 it is recommended that the Cross #11-3 be plugged.

ALLIED CEMENTING CO., INC.

3992

Federal Tax I.D.# 48-0727860

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

SERVICE POINT:

ORIGINAL At Bend

DATE <u>5-13-00</u>	SEC. <u>3</u>	TWP. <u>23</u>	RANGE <u>17</u>	CALLED OUT <u>2:00 PM</u>	ON LOCATION <u>4:15 PM</u>	JOB START <u>8:45 PM</u>	JOB FINISH <u>12:30 AM</u>
LEASE <u>Cross</u>		WELL # <u>11-3</u>		LOCATION <u>homed 65-5W-1/2 N E/S</u>		COUNTY <u>Pawnee</u>	STATE <u>Ka</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Discovery #2

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8" T.D. 4250'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2" DEPTH 1100'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER Same

CEMENT AMOUNT ORDERED 135 lbs 60/40, 690 Mel.

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

RECEIVED
STATE CORPORATION COMMISSION
JUN 7 2000
CONSERVATION DIVISION
Wichita, Kansas

EQUIPMENT

PUMP TRUCK CEMENTER Tyler D

120 HELPER Jason A

BULK TRUCK

342 DRIVER Bob B.

BULK TRUCK

_____ DRIVER _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

Mixed: - 50 lbs @ 1100'

50 lbs @ 380'

10 lbs @ 40'

15 lbs in Patchhole

10 lbs in Moundhole

SERVICE

DEPTH OF JOB 1100'

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 1-8 3/8 Duphole _____ @ _____

TOTAL _____

CHARGE TO: Northwest Well Service, Inc.

STREET 17509 County Rd 14

CITY Fort Morgan STATE COLO ZIP 80701

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment
and furnish cementer and helper to assist owner or

ALLIED CEMENTING CO., INC. 3992

Federal Tax I.D.# 48-0727860

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

ORIGINAL
SERVICE POINT:
At Bend

DATE <u>5-13-00</u>	SEC. <u>3</u>	TWP. <u>23</u>	RANGE <u>17</u>	CALLED OUT <u>2:00 PM</u>	ON LOCATION <u>4:15 PM</u>	JOB START <u>8:45 PM</u>	JOB FINISH <u>12:30 AM</u>
LEASE <u>Cross</u>		WELL # <u>11-3</u>		LOCATION <u>homed 65-5W-1/2 N E/S</u>		COUNTY <u>Pawnee</u>	STATE <u>Ka</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Discovery #2

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8" T.D. 4250'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2" DEPTH 1100'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER Same

CEMENT AMOUNT ORDERED 135 lbs 60/40, 690 Mel,

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Team A

120 HELPER Jason A

BULK TRUCK

342 DRIVER Bob B.

BULK TRUCK

_____ DRIVER _____

REMARKS:

Mixed: - 50 lbs @ 1100'

50 lbs @ 380'

10 lbs @ 40'

15 lbs in Pothole

10 lbs in Mousehole

Thompson

SERVICE

DEPTH OF JOB 1100'

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 1-8 3/8 Dryhole _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Northwest Well Service, Inc.

STREET 17509 County Rd 14

CITY Fort Morgan STATE COLO ZIP 80701

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment
and furnish cementer and helper to assist owner or

TOTAL _____

CEMENTING CO., INC. 3925

Federal Tax I.D.# 48-0727860

ORIGINAL

SAS 67665

SERVICE POINT:

GREAT LEAK

	SEC. <u>3</u>	TWP. <u>23S</u>	RANGE <u>17W</u>	CALLED OUT <u>2:40 PM</u>	ON LOCATION <u>4:15 AM</u>	JOB START	JOB FINISH <u>8:40 AM</u>
WELL # <u>11-3</u>	LOCATION <u>LARNED US SW 3/4 N 9S</u>			COUNTY <u>LINCOLN</u>	STATE <u>KS</u>		

OLD OR NEW (Circle one)

CONTRACTOR DISCOVERY DRILLING CO.

TYPE OF JOB _____

HOLE SIZE 12 1/4" T.D. 351'

CASING SIZE 8 5/8" DEPTH 351'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 20'

PERFS. _____

DISPLACEMENT _____

OWNER NORTHWEST WELL SERVICE

CEMENT AMOUNT ORDERED 22-44 60/40 AZ 3/4 @ 206 GAL

COMMON	_____	@	_____
POZMIX	_____	@	_____
GEL	_____	@	_____
CHLORIDE	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
HANDLING	_____	@	_____
MILEAGE	_____	@	_____

EQUIPMENT

PUMP TRUCK # 111 CEMENTER BOB HELPER _____

BULK TRUCK # 341 DRIVER STEVE

BULK TRUCK # _____ DRIVER _____

TOTAL _____

REMARKS:

RAN 2 1/2" LOG. TO 351' BREAK GALL-
UATION W/PIG
MIX 225 SX 60/40 AZ 3/4 @ 206 GAL
DISPLACEMENT PIG TO 351' W/ FRESH L-30
CEMENT UO GROUTITE

SERVICE

DEPTH OF JOB	_____
PUMP TRUCK CHARGE	_____
EXTRA FOOTAGE	_____ @ _____
MILEAGE	_____ @ _____
PLUG	_____ @ _____
_____	_____ @ _____
_____	_____ @ _____

TOTAL _____

CHARGE TO: DISCOVERY DRILLING CO.

STREET P.O. Box 763

CITY HAYS STATE KS. ZIP 67601

FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

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

ALLIED CEMENTING CO., INC. 3992

Federal Tax I.D.# 48-0727860

ORIGINAL

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

SERVICE POINT:

At Bend

DATE <u>5-13-00</u>	SEC. <u>3</u>	TWP. <u>23</u>	RANGE <u>17</u>	CALLED OUT <u>2:00 PM</u>	ON LOCATION <u>4:15 PM</u>	JOB START <u>8:45 PM</u>	JOB FINISH <u>12:30 AM</u>
LEASE <u>Cross</u>		WELL # <u>11-3</u>		LOCATION <u>Lained 65-5W-1/2 N E/S</u>		COUNTY <u>Pawnee</u>	STATE <u>Ka</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Discovery #2

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8" T.D. 4250'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2" DEPTH 1100'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER Same

CEMENT AMOUNT ORDERED 135 lbs 60/40, 690 lbs

COMMON _____	@ _____
POZMIX _____	@ _____
GEL _____	@ _____
CHLORIDE _____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
HANDLING _____	@ _____
MILEAGE _____	_____
TOTAL _____	

EQUIPMENT

PUMP TRUCK CEMENTER Team D

120 HELPER Jayson A

BULK TRUCK DRIVER Bob B.

342 DRIVER _____

BULK TRUCK DRIVER _____

REMARKS:

Mixed: - 50 lbs @ 1100'

50 lbs @ 380'

10 lbs @ 40'

15 lbs in Pothole

10 lbs in Moundhole

Thomson

SERVICE

DEPTH OF JOB 1100'

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 1-8 3/4 In hole _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Northwest Well Service, Inc.

STREET 17509 County Rd 14

CITY Fort Morgan STATE COLO ZIP 80701

FLOAT EQUIPMENT

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment
and furnish cementer and helper to assist owner or

TOTAL _____

SAS 67665

SERVICE POINT:

GREAT LANE

	SEC <u>3</u>	TWP <u>23S</u>	RANGE <u>17W</u>	CALLED OUT <u>2:30 PM</u>	ON LOCATION <u>11:15 AM</u>	JOB START <u>8:40 AM</u>	JOB FINISH <u>8:40 AM</u>
WELL # <u>11-3</u>	LOCATION <u>LARNED US SW 3/4 9S</u>			COUNTY <u>LINCOLN</u>	STATE <u>KS</u>		

OLD OR NEW (Circle one)

CONTRACTOR DISCOVERY WELLS Co

TYPE OF JOB _____

HOLE SIZE 12 1/4" T.D. 351'

CASING SIZE 8 5/8" DEPTH 351'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 201

PERFS. _____

DISPLACEMENT _____

OWNER NORTHWEST WELL SERVICE

CEMENT AMOUNT ORDERED 22 1/2 bags @ 30# @ 206 gal

COMMON	@	_____
POZMIX	@	_____
GEL	@	_____
CHLORIDE	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
HANDLING	@	_____
MILEAGE	@	_____

EQUIPMENT

PUMP TRUCK # 121 CEMENTER BOB HELPER _____

BULK TRUCK # 341 DRIVER STEVE

BULK TRUCK # _____ DRIVER _____

TOTAL _____

REMARKS:

RAN 2 1/2" LOG TO 351' BREAK CAL-
CULATION W/LOG

MIX 22 1/2 SX TO 40 TOZ 30% CEMENT

DISPLACEMENT LOG TO 351' W/ FRESH LOG

CEMENT W/ CHLORIDE

SERVICE

DEPTH OF JOB	_____
PUMP TRUCK CHARGE	_____
EXTRA FOOTAGE	@ _____
MILEAGE	@ _____
PLUG	@ _____
_____	@ _____
_____	@ _____

TOTAL _____

CHARGE TO: DISCOVERY WELLS Co

STREET P.O. Box 763

CITY HAZARD STATE KS ZIP 67601

FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL _____

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