

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

API NO. 15- 165-21687 0000 ORIGINAL

County Rush County, Kansas

C - NW - SE - Sec. 3 Twp. 16S Rge. 18 XX^E

1980 Feet from (S)M (circle one) Line of Section

1980 Feet from (E)N (circle one) Line of Section

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

Lease Name Grabbe Well # 1-3

Field Name Wildcat

Producing Formation Penn Sand

Elevation: Ground 1929 KB 1938

Total Depth 3600' PSTD

Amount of Surface Pipe Set and Cemented at 1079 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 ALT 1 JH 4-11-96
(Data must be collected from the Reserve Pit)

Chloride content 5000 ppm Fluid volume 800 bbls

Dewatering method used Air dry evaporation

Location of fluid disposal if hauled offsite:

NA

RELEASED

Operator Name RELEASED

Lease Name MAR 1 1997 License No. KCC

Quarter Sec. Twp. JAN 1 S 6 E/W

County FROM CONFIDENTIAL **CONFIDENTIAL**

Operator: License # 31741

Name: Libco, Inc.

Address 3300 S. Parker Road - Suite 206

City/State/Zip Aurora, Colorado 80014

Purchaser: Nitrotec Helium Corporation

Operator Contact Person: Denny Furst

Phone (303) 671-6737

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Jeff Zoller

Designate Type of Completion
 New Well Re-Entry Workover

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

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

Operator: NA

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

11-15-95 11-21-95 11-21-95
Spud Date Date Reached TD Completion Date

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 [Signature]

Title President Date 1/11/96

Subscribed and sworn to before me this 11th day of January, 1996.

Notary Public [Signature]

Date Commission Expires Sept. 28, 1999

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

Operator Name Libco, Inc. Lease Name Grabbe Well # 1-3
 Sec. 3 Twp. 16S Rge. 18 East
 county Rush County, Kansas West

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" 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	Annhydrite	1068	870
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Herrington-Krider	1885	55
List All E.Logs Run: DIGL, CDL/DSN,		Winfield	1931	7
		Wreford	2186	-248
		Cottonwood	2299	-360
		NEVA	2364	-426
		Foreraker	2450	-512
		Waubaussee	2585	-648
		Tarkio	2697	-759
		Topeka	2927	-989
		Heebner	3162	-1224

CASING RECORD (see attached for remaining)							
<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	12-1/4"	8-5/8"	28#	1709'	60/40 Poz	375	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	3601'	50/50 Poz	200	500gal mudflush

ADDITIONAL CEMENTING/SQUEEZE RECORD NA				
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	3492-95	Natural Completion	

TUBING RECORD		Size 2 3/8"	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.			Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	NA	1500	NA			

Disposition of Gas:	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	<u>3492-3495'</u>

15-165-21687-0000

TRILOBITE TESTING L.L.C.

OPERATOR : LIBOC, Inc DATE 11-17-95
 WELL NAME: Grabbe #1-3 KB 1938.00 ft TICKET NO: 8773 DST #1
 LOCATION : 3-16S-18W, Rush Cty KS GR 1929.00 ft FORMATION: KRIDER/WINFIELD
 INTERVAL : 1853.00 To 1960.00 ft TD 1960.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	2342			PF Fr. 0810 to 0840 hr
SI 30 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 0840 to 0910 hr
SF 45 Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 0910 to 0955 hr
FS 60 Depth(ft)	1957.0	1957.0	1856.0	0.0	0.0	FS Fr. 0955 to 1055 hr

	Field	1	2	3	4	
A. Init Hydro	986.0	1002.0	996.0	0.0	0.0	T STARTED 0700 hr
B. First Flow	78.0	90.0	61.0	0.0	0.0	T ON BOTM 0805 hr
B1. Final Flow	88.0	95.0	80.0	0.0	0.0	T OPEN 0810 hr
C. In Shut-in	245.0	244.0	249.0	0.0	0.0	T PULLED 1055 hr
D. Init Flow	98.0	108.0	80.0	0.0	0.0	T OUT 1155 hr
E. Final Flow	98.0	113.0	99.0	0.0	0.0	
F. Fl Shut-in	590.0	607.0	597.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	976.0	998.0	976.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 120.00 ft of 30.00 ft in DC and 90.00 ft in DP
 120.00 ft of Gassy mud (no odor)

Initial Str Wt 40000.00 lbs
 Unseated Str Wt 40000.00 lbs
 Bot Choke 0.75 in
 Hole Size 7.88 in
 D Col. ID 2.25 in
 D. Pipe ID 3.80 in
 D.C. Length 30.00 ft
 D.P. Length 1825.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 Strong, bottom of bucket in 1 min,
 no blow back

Final Blow -
 Strong, bottom of bucket in 1 min,
 no blow back

MUD DATA-----
 Mud Type Chemical
 Weight 9.00 lb/c
 Vis. 40.00 S/L
 W.L. 0.00 in3
 F.C. 0.00 in
 Mud Drop

Amt. of fill 0.00 ft
 Btm. H. Temp. 98.00 F
 Hole Condition GOOD
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester DAN BANGLE
 Co. Rep. JEFF ZOLLER
 Contr. DUKE
 Rig # 4
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

TRILOBITE TESTING L.L.C.

OPERATOR : LIBOC, INC.

DATE 11-20-95

WELL NAME: GRABBE #1-3

KB 1938.00 ft

TICKET NO: 8774

DST #2

LOCATION : 3-16S-18W, Rush Cty KS

GR 1929.00 ft

FORMATION: SAND

INTERVAL : 3433.00 To 3493.00 ft

TD 3493.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 15	Rec.	13754	13754	2342			PF Fr. 1940 to 1955 hr
SI 30	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 1955 to 2025 hr
SF 20	Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 2025 to 2045 hr
FS 45	Depth(ft)	3490.0	3490.0	3436.0	0.0	0.0	FS Fr. 2045 to 2130 hr

	Field	1	2	3	4	
A. Init Hydro	1726.0	1706.0	1726.0	0.0	0.0	T STARTED 1830 hr
B. First Flow	847.0	850.0	852.0	0.0	0.0	T ON BOTM 1935 hr
B1. Final Flow	857.0	864.0	887.0	0.0	0.0	T OPEN 1940 hr
C. In Shut-in	1156.0	1153.0	1173.0	0.0	0.0	T PULLED 2130 hr
D. Init Flow	828.0	826.0	823.0	0.0	0.0	T OUT 2300 hr
E. Final Flow	887.0	896.0	900.0	0.0	0.0	
F. Fl Shut-in	1156.0	1153.0	1173.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1696.0	1699.0	1723.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 49000.00 lbs
						Unseated Str Wt 49000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 3407.00 ft

RECOVERY

Tot Fluid 140.00 ft of 30.00 ft in DC and 110.00 ft in DP
140.00 ft of Gassy mud w/ oil spots

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -

Strong, bottom of bucket in 30 sec;
Gas to surface in 1 - 1.5 min; gauged
and sample taken.

Final Blow -

Strong, bottom of bucket as soon as
tool opened, sample taken, mist of mud
to surface

SAMPLES: 2-IN GLASS BOTTLES

SENT TO:TEX

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/
Vis.	46.00 S/L
W.L.	6.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	111.00 F
Hole Condition	GOOD
% Porosity	19.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	

Tester	DAN BANGLE
Co. Rep.	JEFF ZOLLER
Contr.	DUKE
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

ALLIED CEMENTING CO., INC.

15.1165.21687-0000
2474

ORIGINAL

P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Russell

DATE <u>1/21/95</u>	SEC <u>3</u>	TWP. <u>11</u>	RANGE <u>18</u>	CALLED OUT <u>2:30pm</u>	ON LOCATION <u>4:30pm</u>	JOB START	JOB FINISH <u>3:30pm</u>
LEASE <u>Greylbe</u>		WELL# <u>1-3</u>	LOCATION <u>Co line S Hays 13 E</u>		COUNTY <u>Rush</u>	STATE <u>Ka</u>	

OLD OR NEW (Circle one) NEW

CONTRACTOR Duke Drilling #4

TYPE OF JOB 5 1/2 Prod, CSG

HOLE SIZE 7 1/2 TD. 3600

CASING SIZE 5 1/2 14" DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

OWNER CONFIDENTIAL
CEMENT

AMOUNT ORDERED

2000 lb 60/100 10% salt

1000 lb CD-31 500601 WFR²

COMMON	<u>120</u>	@	<u>6.10</u>	<u>732.00</u>
POZMIX	<u>80</u>	@	<u>3.25</u>	<u>260.00</u>
GEL		@		
CHLORIDE		@		
WFR ²	<u>500 g.</u>	@	<u>1.00</u>	<u>500.00</u>
Salt	<u>17</u>	@	<u>7.00</u>	<u>119.00</u>
CD-31	<u>17</u>	@	<u>4.25</u>	<u>72.25</u>
HANDLING		@	<u>1.00</u>	<u>210.00</u>
MILEAGE	<u>44/50</u>	@		<u>112.00</u>
<u>KUL</u>				
				TOTAL <u>2000.65</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bill

177 HELPER Will

BULK TRUCK DRIVER

213 DRIVER Jason

JAN 1 6

REMARKS:

CONFIDENTIAL SERVICE

Pipe red 0601 Invert 03574

Cement w/ 2000 lb 60/100 10% salt to core

pump plug w/ 29 6/16 water

land plug 01000 PST Float did hold

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1030.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>14</u>	@	<u>2.25</u>	<u>32.00</u>
PLUG <u>Rebber</u>		@		<u>50.00</u>
				TOTAL <u>1132.00</u>

CHARGE TO: Libco, Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

RELEASED

MAR 11 1997

FROM CONFIDENTIAL

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 Ray Sharp

FLOAT EQUIPMENT

<u>5 1/2"</u>				
Float shoe		@		<u>263.00</u>
Float collar		@		<u>298.00</u>
11 Centralizers		@	<u>5.60</u>	<u>616.00</u>
1 Stop Ring		@		<u>20.00</u>
				TOTAL <u>1197.00</u>

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., INC.

2252

15.165.21687 0000

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

CONFIDENTIAL

SERVICE POINT: R

DATE <u>11-16-95</u>	SEC. <u>3</u>	TWP. <u>16^s</u>	RANGE <u>18^w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>1:30 AM</u>
LEASE <u>Crabbe</u>	WELL # <u>1-3</u>	LOCATION <u>Hays 115 1E 8S</u>			COUNTY <u>Rush</u>	STATE <u>Ks</u>	

OLD OR ~~NEW~~ (Circle one)

ORIGINAL

CONTRACTOR Duke Dilg

TYPE OF JOB Long Surface

HOLE SIZE 12 1/4 T.D. 1084

CASING SIZE 8 1/2 DEPTH 1089

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 43

CEMENT LEFT IN CSG. 28^{lb} 65 BBL

PERFS. _____

OWNER _____

CEMENT

AMOUNT ORDERED 375⁶⁴ @ 3% CE 2% gel

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE ALL @ _____

_____ @ _____

JAN 1 6 @ _____

_____ @ _____

~~CONFIDENTIAL~~

RELEASED @ _____

_____ @ _____

HANDLING 1 1997 @ _____

MILEAGE _____ @ _____

FROM CONFIDENTIAL _____

TOTAL _____

EQUIPMENT

153

PUMP TRUCK # _____ CEMENTER Dave

HELPER Mark

BULK TRUCK # _____ DRIVER _____

BULK TRUCK # 254 DRIVER Steve

REMARKS:

Cent on 1, 12.13

Basket 14

Float Held

Cement Cir

SERVICE

DEPTH OF JOB 1079

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG 8 1/2 solid Rubber @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Libco Inc

STREET _____

CITY _____ STATE _____ ZIP _____

8 1/2 FLOAT EQUIPMENT

1 Guide Shoe

1 AFU Insert @ _____

1 Basket @ _____

2 Centralizers @ _____

_____ @ _____

_____ @ _____

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.

SIGNATURE P. White