

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

Operator: License # 30819

Name: Duncan Energy Company

Address 1777 S. Harrison St. P-1

City/State/Zip Denver, CO 80210

Purchaser: Koch

Operator Contact Person: John Bettridge

Phone ( 303 ) 759-3303

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: Richard Bacon

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SVD  SOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSV, 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/SVD  
 Plug Back \_\_\_\_\_ PSTD  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SVD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

02-02-94 02-12-94 3-12-94  
Spud Date Date Reached TD Completion Date

API NO. 15- 071-20618 - 0000

County Greeley

SW SW SE Sec. 35 Twp. 17S Rge. 43  E

400 Feet from (S/N) (circle one) Line of Section

2250 Feet from (E/W) (circle one) Line of Section

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

Lease Name Lang Well # 34-35

Field Name Wildcat

Producing Formation Morrow

Elevation: Ground 3915' KB 3920'

Total Depth 5330' PSTD 5300'

Amount of Surface Pipe Set and Cemented at 314 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1880' Feet

If Alternate II completion, cement circulated from 1880'

feet depth to surf csg w/ 645 sx cnt.

Drilling Fluid Management Plan ALT 2 JZ 9-13-94  
(Data must be collected from the Reserve Pit)

Chloride content 10,000 ppm Fluid volume 3,000 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name N/A

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rge. \_\_\_\_\_ E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

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 Marie O'Keefe

Title Sr. Engineering Technician Date April 12, 1994

Subscribed and sworn to before me this 12th day of April, 1994.

Notary Public Char Stecki

Char Stecki 5-25-97

Date Commission Expires \_\_\_\_\_

K.C.C. OFFICE USE ONLY	
<input type="checkbox"/> Letter of Confidentiality Attached	RECEIVED STATE CORPORATION COMMISSION APR 18 1994 4-18-94
<input checked="" type="checkbox"/> Wireline Log Received	
<input checked="" type="checkbox"/> Geologist Report Received	Distribution KCC _____ KGS _____ KANSAS CORPORATION COMMISSION Wichita, Kansas (Specify)

P1

SIDE TWO

Operator Name Duncan Energy Company Lease Name Lang Well # 34-35  
 Sec. 35 Twp. 17S Rge. 43  East County Greeley  
 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  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E. Logs Run:  
 Compensated Neutron  
 Array Induction Shallow Focused Electric  
 Borehole Compensated Sonic

Log	Formation (Top), Depth and Datum	Sample
Name	Top	Datum
Stone Corral	2664'	
Nevada	3442'	
Lansing	4208'	
Marmaton	4648'	
Cherokee	4770'	
Atoka	4932'	
Morrow	5093'	
V7 Sand Pay	5196'	
L. Morrow Lime	5216'	

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings cat-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"	23# LS	314'	60/40	200	2%Gel 3%CC
production	7-7/8"	5 1/2"	15.5#	5328'	Premium & HLC	645	3% KCL, 1% Halad 322, 1/4 ppe flocele

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ 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	5197-5210'	500 gal 7-1/2% MCA	5197-5210

TUBING RECORD	Size	Set At	AC	Recker At	Liner Run			
	2-7/8"	5239'		5077'	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First, Resumed Production, SMD or Inj.	Producing Method							
3/13/94	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)							
Estimated Production Per 24 Hours	Oil	Sbls.	Gas	Mcf	Water	Sbls.	Gas-Oil Ratio	Gravity
	29		29		42		1000	37.5

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: 5197-5210'

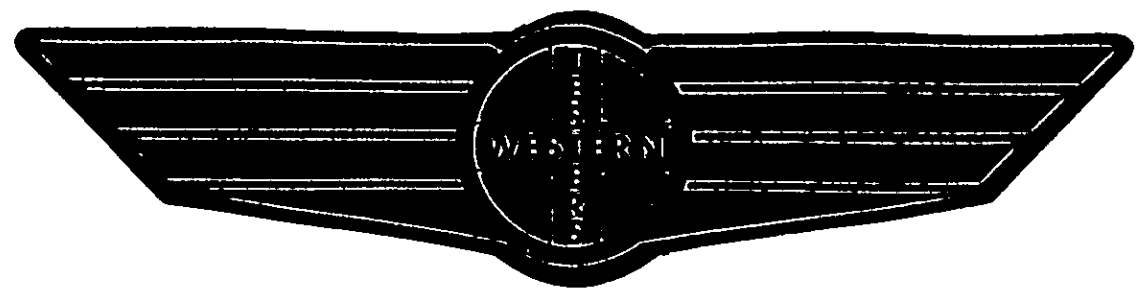
ORIGINAL

COMPANY DUNCAN ENERGY COMPANY  
LEASE & WELL NO. #34-35 LANG  
SFC. 35 TWP. 17S RCF. 43W TREST NO. 1  
DATE 2/11/94

API #15-071-20618

# FORMATION TEST REPORT

RECEIVED  
STATE CORPORATION COMMISSION  
APR 18 1994  
CONSERVATION DIVISION  
Wichita, Kansas



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 2-11-94  
CUSTOMER : DUNCAN ENERGY COMPANY  
WELL : #34-35 TEST: 1  
ELEVATION: 3912 G.L.  
SECTION : 35  
RANGE : 43W COUNTY: GREELEY  
GAUGE SN#: 13760 RANGE : 3950  
TICKET : 20367  
LEASE : LANG  
GEOLOGIST: R. B.  
FORMATION: MORROW  
TOWNSHIP : 17S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5060.00 ft TO: 5210.00 ft TVD: 5210.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 5198.0 ft 5201.0 ft  
TEMPERATURE: 143.0  
DRILL COLLAR LENGTH: 348.0 ft I.D.: 2.200 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 4682.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 30.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 150.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH  
PACKER DEPTH: 5055.0 ft SIZE: 6.750 in  
PACKER DEPTH: 5060.0 ft SIZE: 6.750 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN #3  
MUD TYPE : CHEMICAL  
WEIGHT : 9.300 ppg  
CHLORIDES : 9200 ppm  
JARS-MAKE : WTC  
DID WELL FLOW?: NO  
VISCOSITY : 51.00 cp  
WATER LOSS: 9.600 cc  
SERIAL NUMBER: 422  
REVERSED OUT?: NO

COMMENTS

Comment

STRONG BLOW OFF BOTTOM OF BUCKET IN 4 MINUTES ON  
INITIAL FLOW PERIOD. FAIR BLOW - 5" IN BUCKET ON  
FINAL FLOW PERIOD.

## DST REPORT (CONTINUED)

### FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	240 FT GAS ABOVE FLUID
70.0	0.0	0.0	0.0	100.0	MUD
120.0	20.0	40.0	0.0	40.0	GASSY OIL CUT MUD
360.0	35.0	10.0	0.0	55.0	GASSY OIL CUT MUD

### RATE INFORMATION

OIL VOLUME:	0.9682 STB		TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	4.7935 SCF		AVERAGE OIL RATE:	42.1415 STB/D
MUD VOLUME:	2.6475 STB		AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB			
TOTAL FLUID :	3.6157 STB			

### FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2673.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	195.00	312.00
INITIAL SHUT-IN	60.00		371.00
FINAL FLOW	60.00	341.00	341.00
FINAL SHUT-IN	120.00		381.00

FINAL HYDROSTATIC PRESSURE: 2653.00

### OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2685.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	223.00	317.00
INITIAL SHUT-IN	60.00		385.00
FINAL FLOW	60.00	354.00	342.00
FINAL SHUT-IN	120.00		386.00

FINAL HYDROSTATIC PRESSURE: 2654.00

**PRESSURE TRANSIENT REPORT**

**GENERAL INFORMATION**

DATE : 2-11-94	TICKET : 20367
CUSTOMER : DUNCAN ENERGY COMPANY	LEASE : LANG
WELL : #34-35 TEST: 1	GEOLOGIST: R. B.
ELEVATION: 3912 G.L.	FORMATION: MORROW
SECTION : 35	TOWNSHIP : 17S
RANGE : 43W COUNTY: GREELEY	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12

**INITIAL FLOW**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	223.00	223.00
5.00	254.00	31.00
10.00	271.00	17.00
15.00	293.00	22.00
20.00	297.00	4.00
25.00	310.00	13.00
30.00	317.00	7.00

**INITIAL SHUT IN**

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	317.00	317.00	11.00
6.00	373.00	56.00	6.00
9.00	381.00	8.00	4.33
12.00	382.00	1.00	3.50
15.00	383.00	1.00	3.00
18.00	384.00	1.00	2.67
21.00	385.00	1.00	2.43
24.00	385.00	0.00	2.25
27.00	385.00	0.00	2.11
30.00	385.00	0.00	2.00
33.00	385.00	0.00	1.91
36.00	385.00	0.00	1.83
39.00	385.00	0.00	1.77
42.00	385.00	0.00	1.71
45.00	385.00	0.00	1.67
48.00	385.00	0.00	1.63
51.00	385.00	0.00	1.59
54.00	385.00	0.00	1.56
57.00	385.00	0.00	1.53

11.11.11

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	385.00	0.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	354.00	354.00
5.00	353.00	-1.00
10.00	352.00	-1.00
15.00	351.00	-1.00
20.00	350.00	-1.00
25.00	349.00	-1.00
30.00	348.00	-1.00
35.00	347.00	-1.00
40.00	346.00	-1.00
45.00	345.00	-1.00
50.00	344.00	-1.00
55.00	343.00	-1.00
60.00	342.00	-1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	342.00	342.00	21.00
6.00	343.00	1.00	11.00
9.00	344.00	1.00	7.67
12.00	345.00	1.00	6.00
15.00	346.00	1.00	5.00
18.00	347.00	1.00	4.33
21.00	348.00	1.00	3.86
24.00	349.00	1.00	3.50
27.00	350.00	1.00	3.22
30.00	351.00	1.00	3.00
33.00	352.00	1.00	2.82
36.00	353.00	1.00	2.67
39.00	354.00	1.00	2.54
42.00	355.00	1.00	2.43
45.00	356.00	1.00	2.33
48.00	357.00	1.00	2.25

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	358.00	1.00	2.18
54.00	359.00	1.00	2.11
57.00	360.00	1.00	2.05
60.00	361.00	1.00	2.00
63.00	362.00	1.00	1.95
66.00	363.00	1.00	1.91
69.00	364.00	1.00	1.87
72.00	365.00	1.00	1.83
75.00	366.00	1.00	1.80
78.00	367.00	1.00	1.77
81.00	368.00	1.00	1.74
84.00	369.00	1.00	1.71
87.00	370.00	1.00	1.69
90.00	371.00	1.00	1.67
93.00	372.00	1.00	1.65
96.00	373.00	1.00	1.63
99.00	374.00	1.00	1.61
102.00	375.00	1.00	1.59
105.00	376.00	1.00	1.57
108.00	378.00	2.00	1.56
111.00	380.00	2.00	1.54
114.00	382.00	2.00	1.53
117.00	384.00	2.00	1.51
120.00	386.00	2.00	1.50



ORIGINAL

FLUID SAMPLE REPORT

GENERAL INFORMATION

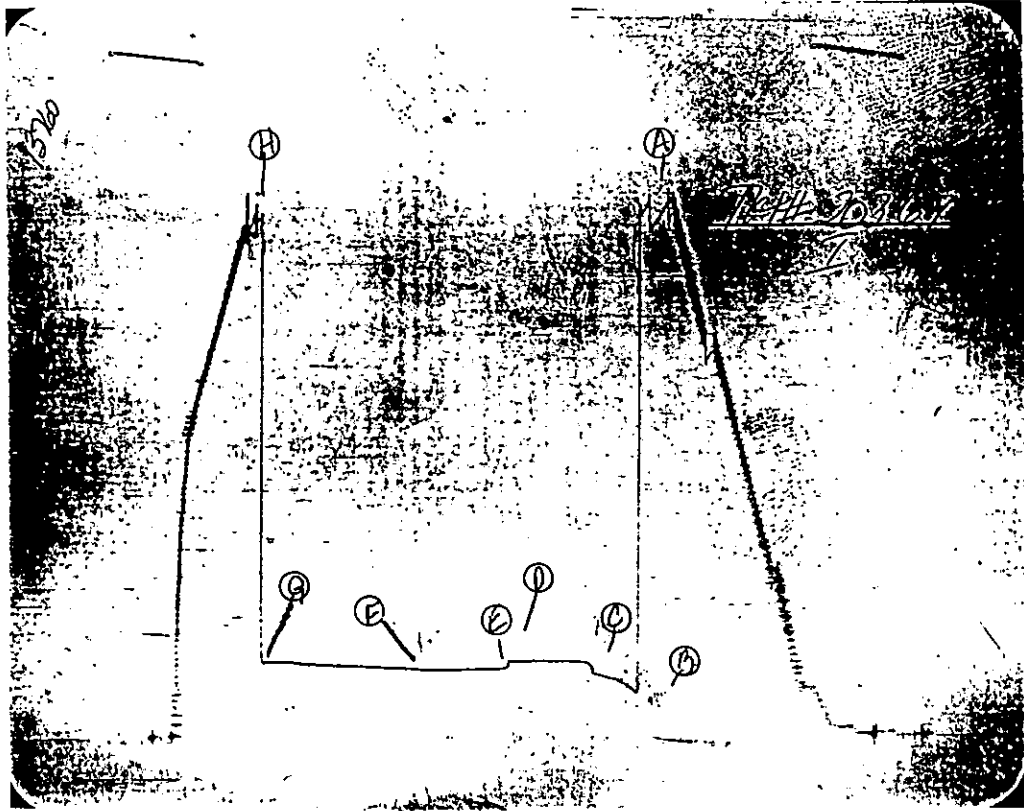
DATE : 2-11-94  
CUSTOMER : DUNCAN ENERGY COMPANY  
WELL : #34-35 TEST: 1  
ELEVATION: 3912 G.L.  
SECTION : 35  
RANGE : 43W COUNTY: GREELEY  
GAUGE SN#: 13760 RANGE : 3950  
TICKET : 20367  
LEASE : LANG  
GEOLOGIST: R. B.  
FORMATION: MORROW  
TOWNSHIP : 17S  
STATE : KS  
CLOCK : 12

SAMPLE INFORMATION

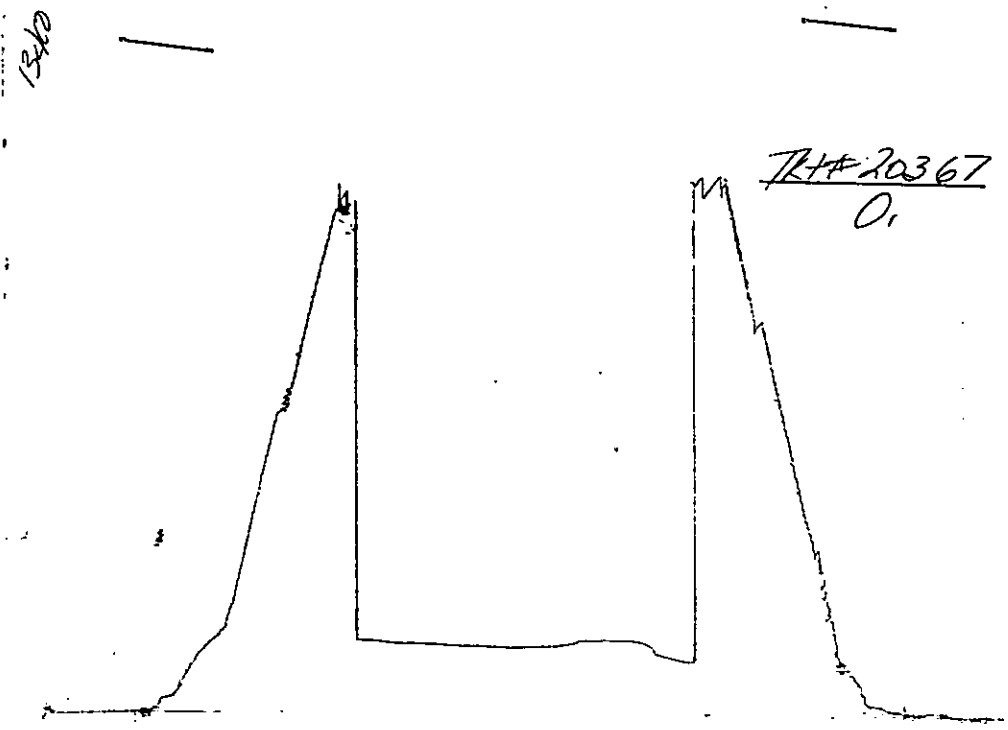
PRESSURE IN SAMPLER: 150.00 PSIG BHT: 143.0 DEG F  
TOTAL VOLUME OF SAMPLER: 3150.00 cc  
TOTAL VOLUME OF SAMPLE: 2000.00 cc  
OIL: 980.00 cc  
WATER: 140.00 cc  
MUD: 1680.00 cc  
GAS: 1.60 cc  
OTHER: 0.00 cc

RESISTIVITY

DRILLING MUD: .3 @ 60 DEGREES  
MUD PIT SAMPLE: .3 @ 60 DEGREES  
GAS/OIL RATIO:  
WHERE WAS SAMPLE DRAINED:  
REMARKS:  
CHLORIDE CONTENT: 12000.00 ppm  
CHLORIDE CONTENT: 9200.00 ppm  
GRAVITY:



Inside Recorder



Outside Recorder

Phone 913-483-2627, Russell, KS  
 Phone 316-793-5861, Great Bend, KS

Phone 913-625-5516, Hays, KS  
 Phone 913-672-3471, Oakley, KS

Phone 316-826-5926, Medicine Lodge, KS  
 Phone 913-798-3843, Ness City, KS

# ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

2-2-94

RECEIVED  
 SEP 06 1994

7519

Date	2-3-94	Sec.	35	Twp.	17	Range	43	Called Out	10:00 PM	On Location	1:30 AM	Job Start		Finish	4:30 AM	
Lease	Lang	Well No.	34-35		Location			Tribune 14W-4N-16W		County	Wheeler	State	Kan			
Contractor	MURFIN Drilling Co #3											Owner	Duncan Energy			
Type Job	Surface											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 listed.				
Hole Size	12 1/4		T.D.		314'											
Cag.	8 5/8		Depth		314'											
Tbg. Size			Depth													
Drill Pipe			Depth													
Tool			Depth													
Cement Left in Cag.	15'		Shoe Joint													
Press Max.			Minimum													
Meas Line			Displace		✓											
Perf.																

### EQUIPMENT

Okley No.	Cementor	Walt
Pumptrk 300	Helper	Terry
Pumptrk No.	Cementor	
Pumptrk	Helper	
Bulktrk 212	Driver	Steve
Bulktrk	Driver	

### DEPTH of Job

Reference:	Pumptruck	430 <sup>00</sup>
	8 5/8 Wooden Plug	42 <sup>00</sup>
	225 per mile	225 <sup>00</sup>
	Sub Total	
	Tax	
	Total	697 <sup>00</sup>

### Remarks:

Cement Drill Core

Charge To	Murfin Drilling Co.		
Street	250 N. Water, ST #300		
City	Wichita	State	Kan 67203
The above was done to satisfaction and supervision of owner agent or contractor.			
Purchase Order No.	K with Van Pelt		
<b>CEMENT</b>			
Amount Ordered	200 sks <sup>60</sup> paper, 3% ACC - 2% Gel		
Consisting of			
Common	120	skts @ 6 <sup>55</sup>	822 <sup>00</sup>
Poz. Mix	80	skts @ 3 <sup>00</sup>	240 <sup>00</sup>
Gel.	4	skts @ 7 <sup>00</sup>	41 <sup>00</sup>
Chloride	7	skts @ 25 <sup>00</sup>	175 <sup>00</sup>
Quickset			
Sales Tax			
Handling	1 <sup>00</sup>	per sk	200 <sup>00</sup>
Mileage	4 <sup>00</sup>	per sk/mile	800 <sup>00</sup>
	100 miles		
Sub Total			2,237 <sup>00</sup>
Total			
Floating Equipment			

RECEIVED  
 STATE CORPORATION COMMISSION

SEP 12 1994

Walt Terry

RECEIVED  
SEP 06 1994

TELEPHONE:  
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31  
RUSSELL, KANSAS 67665

TO: Murfin Drilling Co.  
250 W. Water St., #300  
Wichita, KS 67202

INVOICE NO. 95004  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME Land #34-35  
DATE 2-3-94

SERVICE AND MATERIALS AS FOLLOWS:

Common 120 sks @ \$6.85 \$822.00  
Pozmix 20 sks @ \$12.00 240.00  
Chloride 7 sks @ \$25.00 175.00

\$1,237.00

Handling 200 sks @ \$1.00 200.00  
Mileage (100) @ \$.04 per sk per mi 400.00  
Surface 430.00  
1 plug 42.00  
Mi @ \$2.25 pmp trk chg 225.00

1,697.00

90218 003 W 9952 2934.00 Cement S.C. Total  
(586.80)  
586.80

\$2,934.00

(586.80)

Thank you!

*[Handwritten signature]*  
BWC  
pmp

\$2,347.20

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter.



INVOICE

INVOICE NO.	DATE
508293	02/13/1994

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
NG 34-35	GREELEY	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
ERLIN	MURFIN DRLG #3	CEMENT PRODUCTION CASING	02/13/1994
CT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
3803	DAN HALL		
			SHIPPED VIA
			COMPANY TRUCK
			FILE NO.
			64030

**RECEIVED**  
MAR 09 1994

DUNCAN ENERGY CO  
1777 S. HARRISON, PENTHOUSE 1  
DENVER, CO 80210

DIRECT CORRESPONDENCE TO:  
OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2000  
OKLAHOMA CITY, OK 73102-5601

ACCOUNTS Payable

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
000-117	MILEAGE CEMENTING ROUND TRIP	130	MI	2.75	357.50
		1	UNT		
007-013	MULT STAGE CEMENTING-1ST STAGE	5328	FT	1,755.00	1,755.00
001-016		1	UNT		
007-161	MULT STAGE CEMENTING-ADD STAGE	1	STG	1,295.00	1,295.00
		1	UNT		
018-315	MUD FLUSH	420	GAL	.65	273.00
02A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	121.00	121.00
825.205					
03A	FLOAT COLLAR 5-1/2" 8RD SS II	1	EA	253.00	253.00
836.07100					
040	CENTRALIZER 5-1/2" X 7 7/8"	15	EA	44.00	660.00
807.93022					
036	FASGRIP LIMIT CLAMP 5 1/2"	1	EA	12.00	12.00
807.64031					
071	MULT STAGE CMTR-5-1/2 8RD	1	EA	2,450.00	2,450.00
813.80300					
075	PLUG SET - FREE FALL - 2-STAGE	1	EA	460.00	460.00
813.16510					
0350	HALLIBURTON WELD-A	1	LB	14.50	14.50
890.10802					
504-043	CEMENT - PREMIUM	350	SK	10.07	3,524.50
507-775	HALAD-322	329	LB	7.05	2,319.45
508-002	POTASSIUM CHLORIDE	436	LB	.27	117.72
507-210	FLOCELE	88	LB	1.45	127.60
500-207	BULK SERVICE CHARGE	356	CFT	1.35	480.60
500-306	MILEAGE CMTG MAT DEL OR RETURN	1097	TMI	.95	1,042.15
504-316	CEMENT - HALL. LIGHT STANDARD	295	SK	8.37	2,469.15
500-207	BULK SERVICE CHARGE	295	CFT	1.35	398.25
500-306	MILEAGE CMTG MAT DEL OR RETURN	861.77	TMI	.95	819.08

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\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

DIVISION

FFIX JOB TKT

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay all attorney fees, costs of the proceedings, and court costs.

HALLIBURTON SUMMARY

HALLIBURTON LOCATION

Obolw, Ks

BILLED ON TICKET NO. 508293

CUSTOMER  
D. J. Johnson  
LEASE  
LAW  
WELL NO.  
34-35  
JOB TYPE  
2-Stage

Model - Johnson

SEC 35 TWP. 17S RNG. 43W COUNTY GREELEY STATE Ks

WELL DATA

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
 FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
 INITIAL PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_  
 PRESENT PROD. OIL \_\_\_\_\_ BPD. WATER \_\_\_\_\_ BPD. GAS \_\_\_\_\_ MCFD \_\_\_\_\_  
 COMPLETION DATE \_\_\_\_\_ MUD TYPE \_\_\_\_\_ MUD WT. \_\_\_\_\_  
 PACKER TYPE D.V. Tool SET AT 1885  
 BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_  
 MISC. DATA \_\_\_\_\_ TOTAL DEPTH 5330

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	15.5	5/2	KB	5328	
LINER	Y		8 7/8	KB	314	SUNFI
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA - Central Times

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>2-12-94</u>	DATE <u>2-13-94</u>	DATE <u>2-13-94</u>	DATE <u>2-13-94</u>
TIME <u>1918</u>	TIME <u>0130</u>	TIME <u>0445</u>	TIME <u>1425</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>Super Seal II 5/2</u>	<u>1EA</u>	<u>Howco</u>
GUIDE SHOE <u>Reg 5/2</u>	<u>1EA</u>	<u>Howco</u>
CENTRALIZERS <u>S-4 5/2</u>	<u>1EA</u>	<u>Howco</u>
BOTTOM PLUG		
TOP PLUG <u>Aug Set 5/2</u>	<u>1EA</u>	<u>Howco</u>
HEAD <u>Aug Cont. 5/2</u>	<u>1EA</u>	<u>Howco</u>
PACKER <u>D.V. Tool 5/2</u>	<u>1EA</u>	<u>Howco</u>
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>K. Logg</u>	<u>73140</u>	<u>3580 RCM - Obolw Ks</u>
<u>J. Alstrom</u>	<u>66382</u>	<u>3846-7613 Obolw Ks</u>
<u>D. McIntyre</u>	<u>B3085</u>	<u>4032-8151 Tractor-660 Obolw Ks</u>
<u>J. Keenan</u>	<u>63503</u>	<u>40070 F-250 - Obolw Ks</u>

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API \_\_\_\_\_  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB./GAL. API \_\_\_\_\_  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB. \_\_\_\_\_  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ % \_\_\_\_\_  
 SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN \_\_\_\_\_  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 FRIC. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN \_\_\_\_\_  
 PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_  
 OTHER \_\_\_\_\_  
 OTHER \_\_\_\_\_

DEPARTMENT CMT - Bulk - Sales  
 DESCRIPTION OF JOB CMT 5/2 Cgg thru MULTI STAGE CEMENT

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE [Signature]  
 HALLIBURTON OPERATOR [Signature] COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	350	Premium	B		1% Halad 322-390 KCL, 1/4 lb HOCET	1.16	15.8
2	295	HLC	STAN.			1.92	12.85

PRESSURES IN PSI

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN \_\_\_\_\_ 15-MIN \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET 45.08 REASON SHOE ST.

SUMMARY

VOLUMES

PRESLUSH: 2 GAL. 10 TYPE mud flush  
 LOAD & BKON: BBL. GAL. \_\_\_\_\_ PAQ. BBL. GAL. 8-110  
 TREATMENT: BBL. GAL. \_\_\_\_\_ DISPL. BBL. GAL. 13645  
 CEMENT SLURRY (BBL. GAL.) 72-101  
 TOTAL VOLUME (BBL. GAL.) 362

REMARKS

SEE Job log  
Thank you  
 SEP 12 1994

FIELD OFFICE

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~~15-071-20~~

UNION ENERGY		WELL NO. 34-35	LEASE LANG	JOB TYPE 2-STAGE LongString	TICKET NO. 508 293		
CHARTER START	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI) TUBING Casing	DESCRIPTION OF OPERATION AND MATERIALS
				T	C		
2-12	1918						CALLER OUT
2-13	0130						ON loc.
	1400						Rig Laying Down Drill Pipe
	0315						SETUP Truck
	0500						FIN Laying Down
	1410						START 5 1/2 csg w/ Regguide shoe
							SUPER SEAL FLINT COLLAR & D.U. BARREL
							Top: 1 <sup>ST</sup> JT. - Howwood Fluted
							CENTRAL zone middle 1 <sup>ST</sup> JT.
							Top # 2, 3, 4, 6, 8, 10, 12, 14, 16, 18
							74, 75, 77 & 78 JTs. P.U. TOOL 19#7, C/O 82FT.
	0805						FIN csg. Hook up Plug cont.
	0815						START cline
	0855						FIN cline
							Hook to Pump Truck
	0900	6		1		400	START 10 BBL mild Flush
	0904	6	10	1		400	FIN mud Flush
	0909	6	3	1		400	3 BBL Fresh H <sub>2</sub> O. Spent FT
	0910	6		1		400	START mix 350 S/Ks Premium cont
		6					w/ 1% Halad 322, 3% KCL & 1/4 LB Flocc
	0925	6	72	1		100	FIN cont
							Wash up Pump & Lines
	0930	6		1		0	START Disp w/ Fresh H <sub>2</sub> O
	0937	2	42	1		0	SLOW RATE BETWEEN 42-46 BBL
	0945	6	85	1		0	FIN H <sub>2</sub> O disp
	0945	6		1		0	St. mud Disp
	0946	6	87	1		200	START Lifting cont
	0953	3	121	1		800	slow Rate - 800psi cline PSI
	0955	3	126	1		1500	FIN Disp - Good Returns
	0859						RELEASE - Dry
	1010						Drop P.U. opening Tool
	1023			1		1300	open P.U. T20
	1025						Rig start cline
							FIN cline
							Hook to Pump Truck
							cont NEXT page

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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
UNCAN Energy			34-35	Lang		2 STAGE 4/2		TICKET NO. 508293
	1345				1		150	START H <sub>2</sub> O spacer
	1348		5		1		150	FIN spacer
	1350				1		150	START MIX 295 SE HCC - PIT ISSKS
	1406		10.1		1		50	FIN CUT IN RAT. hole
					1			RELEASE Top Plug
5300	1408				1		50	START Disp COMPANY TEST
	1410		10		1		150	ST. LIFT CUT
					1		600	CIRC PSI - CORRESPONDENCE TO
	1416		45		1		2000	FIN Disp - CIRC 15 BBL CUT
	1419						0	Release - Held
	1421						2000	TEST Csg - Hole 00 7310 92
	1424						0	Release - Held
								Job complete
<p>Thank you John Kent, Jenny &amp; David</p> <p>CIRC 15 BBL CUT TO PIT John Keenan, Halliburton Pumping Serv John Keenan, Cementer Keith [Signature] John [Signature]</p>								
<p style="font-size: 2em;">X</p>								

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