

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

API NO. 15- 175-21406⁰⁰⁰⁰
County Seward
 - - NW - SE Sec. 11 Twp. 32S Rge. 32W ^E/_W

ORIGINAL

Operator: License # 30606

1980 Feet from SW^X (circle one) Line of Section

Name: Murfin Drilling Co., Inc.

1980 Feet from EW^X (circle one) Line of Section

Address 250 N. Water, Suite 300

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

City/State/Zip Wichita, KS 67202

Lease Name Douglas Well # 1-11

Purchaser: N/A

Field Name Unknown

Operator Contact Person: Larry M. Jack

Producing Formation None

Phone () 267-3241

Elevation: Ground 2822 KB 2833

Contractor: Name: Murfin Drilling Co., Inc.

Total Depth 5800 PBDT

License: 30606

Amount of Surface Pipe Set and Cemented at 1727 Feet

Wellsite Geologist: Paul Godowic

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set Feet

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

If Alternate II completion, cement circulated from

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

feet depth to w/ sx cmt.

Drilling Fluid Management Plan D&A JFH 3-8-95
(Data must be collected from the Reserve Pit)

Operator: RELEASED

Chloride content ppm Fluid volume 2500 bbls

Well Name:

Dewatering method used evaporation

Comp. Date 8/6/94 Original Depth

Location of fluid disposal if hauled offsite:

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

Operator Name NUL **AUG 29 1994**

7/19/94 8/6/94
Spud Date Date Reached TD Completion Date

Lease Name AUG 26 License No.

Quarter Sec. Twp. S Rng. 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 By: Larry M. Jack

Title Larry M. Jack, Prod. Mgr. Date 8/26/94

Subscribed and sworn to before me this 26 day of August, 1994.

Notary Public Kerran Redington
KERRAN REDINGTON
NOTARY PUBLIC
STATE OF KANSAS
Date Commission Expires 2/6/98
My Appl. Exp. 2/6/98

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 Murfin Drilling Co., Inc. Lease Name Douglas Well # 1-11
 Sec. 11 Twp. 32S Rge. 32W East County Seward 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.) Log Formation (Top), Depth and Datum Sample Name Top Datum

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No (Submit Copy.)

List All E.Logs Run: DUAL INDUCTION
COMPENSATED NEUTRON
 See attached. BOREHOLE COMPENSATED SPN See attached.
MICRO-RESISTIVITY

CASING RECORD New 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	24#	1727	Lite Class A	450 200	3% cc

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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. D&A Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil N/A 8bls. Gas N/A Mcf Water N/A 8bls. 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 _____



CONFIDENTIAL

PAUL F. GODOWIC

WELLELE
CONSULTING GEOLOGIST

MEMBER AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS

5500 MEADOWGREEN DRIVE — AMARILLO, TEXAS 79110 — BUS. (806)353-2021 — RES. (806)355-0165

August 10, 1994

ORIGINAL

GEOLOGICAL WELL REPORT

Murfin Drilling Co., Inc. / Canyon Energy, Inc.
No. 1-11 Douglas
1980' FS & EL of
Section 11-T32S-R32W,
Seward County, Kansas

API 15-175-21406

RUL

Elevations: 2833'KB (Datum Used)
2832'DF
2822'GL

Contractor: Murfin Drilling Co., Inc., Rig-22

Spud Date: July 19, 1994

Drilling Completed: August 5, 1994

Total Drilling Time: 18 Days

Total Depth: 5800' (Driller)
5800' (Electrical Survey)

Hole Size: 2 1/4" to 1727'
7 7/8" to TD.

Casing: 8 5/8" set at 1727'

Gas Detector: Earth Tech from 1730' to TD.

Electrical Surveys: BPB, Liberal, Kansas, Mike Diehl,
Engineer, Array Induction Shallow Fo-
cused Electric Log from 5799' to 1727'
(also detailed from 5799' to 1727') with
Gamma Ray to surface, a Compensated Neu-
tron Compensated Photo-Density Log from
5799' to 2598', a Borehole Compensated
Sonic Integrated Transit Time Log from
5787' to 1727', and a Micro-Resistivity
Log from 5799' to 1727'.

AUG 26
CONFIDENTIAL

RELEASED
OCT 26 1995
FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION

AUG 29 1994

CONSERVATION DIVISION
WICHITA, KANSAS

Murfin Drilling Company, Inc.
Suite 300
250 North Water Street
Wichita, Kansas 67202

CONFIDENTIAL

COPY

Gentlemen:

I have witnessed the drilling of the No. 1-11 Douglas from 2550' to a total depth of 5800' in Ste. Genevieve (Mississippian) rocks. A sample log with lithological descriptions, two foot drilling time, gas detector readings and other pertinent data was plotted on a 5"=100' scale from 2550' to TD.

Samples on this test are being sent to the Kansas Geological Society Sample Library, 4150 Monroe Street, Wichita, Kansas 67209.

Geological tops corrected to the electrical survey and correlated with the Tidewater Oil Company - Duefield No. 1 (1980' FNL & 2010' FEL of Section 14-T32S-R32W, Seward County, Kansas), a 7277' test drilled in 1967 about 3/4 of a mile south, are as follows:

Formation (Elevation-Datum)	Murfin/Canyon No. 1-11 Douglas 2833 KB	Tidewater No. 1 Duefield 2835 KB
Base of Stone Corral	1731 +1102	Cased Off
Wellington	2230 +603	2229 +606
Herington	2647 +186	2664 +171
Krider	2706 +127	2726 +109
Winfield	2752 +81	2776 +59
Base of Winfield	2788 +45	2813 +22
Wabaunsee	3373 -540	3415 -580
Base of Heebner	4248 -1415	4272 -1437
Toronto	4256 -1423	4279 -1444
Lansing	4352 -1519	4374 -1539
Iola	4625 -1792	4642 -1807
Base Stark Shale	4826 -1993	4842 -2007
Swope Porosity	4836 -2003	4954 -2019
Marmaton	4983 -2150	4999 -2164
Cherokee Shale	5172 -2339	5173 -2338
Atoka	5345 -2512	5350 -2515
Morrow	5526 -2693	5510 -2675
Morrow Sand	5537 -2704	
Morrow Sand	5613 -2780	
Chester (Mississippian)	5644 -2811	5605 -2770
Ste. Genevieve	5742 -2909	5718 -2883
St. Louis	NDE	5792 -2957
Arbuckle	NDE	7098 -4263
T.D. - E.S.	5800 -2967	7277 -4442
T.D. - Driller	5800 -2967	7280 -4445

AUG 26

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OCT 26 1995

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Zones of interest are discussed below:

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STATE CORPORATION COMMISSION

AUG 29 1994

CONSERVATION DIVISION

Herington (2647) Samples indicate a tan to gray, mottled, very finely sucrosic dolomite with very fine vugs at 2647'. White opaque to translucent chert was present. No fluorescence, stain or cut were present in the poor to fair quality samples. A 25 unit gas detector reading (background was zero) was recorded from 2650 to 2655'. This gas show lasted ten minutes. A seven unit reading was recorded from 2660' to 2666'. Overall, this gas show lasted 25 minutes. There was no drilling break and this section was drilled at about two min/ft. Samples were circulated at 2677'. Drill Stem Test No. 1 over this section yielded 10 feet of mud with no show of gas, oil or water. This test was conclusive.

Krider (2706) Samples indicate a light gray to gray, mottled, very finely sucrosic dolomite with fine vugs at 2706. There was weak mineral fluorescence, but no stain or cut were present in the fair to poor quality samples. The drill rate was slightly less than two min/ft from 2708' to 2730' while the rate above was slightly less than three min/ft. A 51 unit gas detector reading that lasted 40 minutes was recorded over a zero background from 2708' to 2730' and samples were circulated at 2730'. Drill Stem Test No. 2 over this show yielded 65' of water cut mud with no show of gas or oil. No further testing is warranted.

Lansing (4352) A light gray, finely crystalline to chalky, oolitic, fossiliferous (fusulines) limestone with fine fine size vugs was noted at 4352'. Bright yellow fluorescence, some stain and fair-good cut were present in the fair to good quality samples. This was about a 15% show. A ten foot drilling break of one min/ft (compared to 2 1/2 min/ft above) took place at 4353'. A strong 312 unit gas detector reading (background was 130 units) that lasted ten minutes was recorded and samples were circulated at 4368'. This show was encouraging, but Drill Stem Test No. 3 over this zone yielded only mud and saltwater and had no show of gas or oil. No further testing could be recommended.

Iola (4625) Samples indicate a light brown, finely crystalline to very finely sucrosic, cherty limestone with good oolitic porosity at 4628'. No fluorescence, stain or cut were present in the fair to poor quality samples. Seven feet at 4628' averaged one min/ft (compared to 2 1/2 min/ft above). A 134 unit gas detector reading that lasted 12 minutes over a 48 unit background was recorded from 4628' to 4637' and samples were circulated at 4640'. Drill Stem Test No. 4 over this show had a recovery of 3482' of gas in the pipe. This was an encouraging show, but it is too poor to warrant further testing.

Swope Porosity (4836) A tan to light brown, finely crystalline to very finely sucrosic, oolitic limestone is present at 4841'. Yellow fluorescence, light stain and fair cut were seen in the fair to poor quality samples. This was about a 2% show. A very strong 604 unit gas show (background was 125 units) that lasted seven minutes was recorded from a nine foot zone at 4841'. A very good nine foot drilling break of less than 1/2 min/ft (compared to over 2 1/2 min/ft above) was plotted at 4841' and samples were circulated at 4856'. Drill Stem Test No. 5 over this show yielded 1294' of gas in pipe and 120' of oil & gas cut mud, but also had 486' of muddy saltwater. This is too poor to warrant further testing.

Another oolitic porous zone at 4874' (possibly Hertha) had a 285 unit gas show (background was 170 units) that lasted about 17 minutes, but no shows were seen in the good quality samples. A 28' drilling break of less than 1/2 min/ft took place at 4874' and samples were circulated at 4901'.

Drill Stem Test No. 6 over this show yielded 1050' of mud cut salt-water. This was a conclusive test and no further evaluation is necessary.

Marmaton (4983) Samples indicate a buff, finely crystalline to very finely sucrosic limestone with oolitic porosity at 4984'. Bright yellow fluorescence, light stain and fair cut were noted. Sample quality was poor and this was a one percent show. A very strong 634 unit gas show (background was 76 units) that lasted 12 minutes was plotted from 4984' to 4994'. A good ten foot drilling break of about 1/2 min/ft (compared to 2 to 3 min/ft above) took place at 4984' and samples were circulated at 4994'. Drill Stem Test No. 7 over this show had a gas flow of 189 mcf/d (stabilized) and also yielded 300' of gas and oil cut mud, but also had 545' of saltwater with a few oil spots. This test had a packer seat 44' above the porosity which left some doubt as to where the water was coming from. So Drill Stem Test No. 12 over the lower part of this porosity was run and positively indicated that indeed the lower part was water bearing. This was a very good show, but the zone is too thin to warrant any further testing thru casing.

Atoka (5345) A gray to brown, finely crystalline to very finely sucrosic silty dolomite with some very fine size vugs was plotted at 5501'. Yellow fluorescence, stain and good cut were noted. Sample quality was fair and this was about a 20% show. A strong 497 unit gas show (background was 130 units) was recorded from 5501 to 5506'. This show lasted about seven minutes. A five foot drilling break of 1 1/2 min/ft (compared to 3 1/2 min/ft above) took place at 5501 and samples were circulated at 5512'. Drill Stem Test No. 8 over this show yielded 1160' of gas in pipe and 30' of gas, oil and water cut mud. This was a significant show, but it is too poor to warrant further testing.

Morrow Sand (5537) Samples indicate a light gray to clear, medium to coarse grained, subrounded, calcareous sandstone with some vuggy (secondary quartz growth) and intergranular porosity. There were abundant free quartz grains. No fluorescence, stain or cut were present in the good quality samples which were about 2% sandstone. A 166 unit gas reading (background was 90 units) that lasted 25 minutes was plotted from 5532' to 5540'. An eight foot drilling break of 2 min/ft (compared to 5 min/ft above) took place at 5532' and samples were circulated at 5545'. Drill Stem Test No. 9 over this sand yielded 30' of mud cut water. This was a conclusive test.

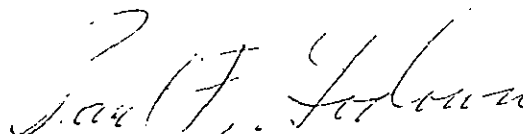
Morrow Sand (5613) Samples indicate a gray to gray-brown, fine grained, calcareous, slightly glauconitic sandstone with intergranular porosity at 5611'. Yellow-white fluorescence, odor, stain and good cut were present in the good quality samples. This was a 50% show. A strong 604 unit gas show (background was 80 units) that lasted 22 minutes was plotted from 5611 to 5621'. A ten foot drilling break of 2 min/ft (compared to 3 to 4 min/ft above) took place at 5611' and samples were circulated at 5621'. Drill Stem Test No. 10 over this zone had a gas flow of only 11.3 mcf/d. This was a very encouraging show, but it is too poor to warrant further testing. This section should be closely checked in any future drilling in the area.

Chester (5644) Samples indicate a brown to brown-black, very fine grained to silty, calcareous, argillaceous sandstone at 5704'. Saturated asphaltic stain, bleeding gas and weak fluorescence with very good cut were noted in the good quality samples. This was a 20% show. A 267 unit gas show (background was 60 units) that lasted 11 minutes was plotted from 5704' to 5708'. A four foot drilling break of 2 1/2 min/ft (compared to

3 1/2 min/ft above) took place at 5704' and samples were circulated at 5721', but it was decided not to test at this point. DrillStem Test No. 11 over this zone, however, yielded only 60' of mud with no show of gas or oil. This was a good test mechanically and indicates no further evaluation is necessary.

Summary and Conclusions

All zones drilled have been thoroughly evaluated and none were found worthy of additional testing. The shows encountered, especially in the Marmaton and Morrow, should encourage additional drilling in the immediate area. The No. 1-11 Douglas was plugged and abandoned on August 8, 1994.



Paul F. Godowic

Drill Stem Test Field Results

DST No. 1, 2640-2677', Herington, 37' of anchor, 30 minute initial flow period opened with a weak blow that died immediately, 30 minute initial shut in period, 30 minute final flow period opened with no blow, 30 minute final shut in period, Recovered 10' of drilling mud with no show of gas, oil or water.

IHP 1245, 30" IFP 40-40, 30" ISIP 50, 30" FFP 40-40, 30" FSIP 40, FHP 1245, BHT 106°F

Sample chamber recovery was 4000 cc of mud at a pressure of 50 psi. Chamber capacity is 4000 cc.

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer, July 23, 1994. This was a good test mechanically.

DST No. 2, 2695-2730', Krider, 35' of anchor, 30 minute initial flow period opened with a weak blow slowly increasing (two inches in water at end), 30 minute initial shut in period, 30 minute final flow period had a weak blow slowly increasing (3" in water at end), 30 minute final shut in period, Recovered 65' of water cut mud (10% water & 90% mud).

IHP 1205, 30" IFP 43-54, 30" ISIP 229, 30" FFP 54-54, 30" FSIP 152, FHP 1205, BHT 106°F

Sample chamber recovery was 4000 cc of mud at a pressure of 175 psi. Chamber capacity is 4000 cc.

Recovery Rw is	0.3	ohms	at	75°F	with	chlorides	of	20,000	ppm
Sampler	"	0.3	"	75	"	"	"	20,000	"
Pit Mud	"	0.7	"	75	"	"	"	8,000	"

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer, July 24, 1994. This was a good test mechanically.

DST No. 3, 4340-4368', Lansing, 28' of anchor, 30 minute initial flow period opened with a weak blow slowly increasing (4" in water at end), 45 minute initial shut in period, 60 minute final flow period opened with a very weak blow slowly increasing (2" in water at end), 60 minute final shut in period, Recovered 60' of water cut mud (5% water & 95% mud), and 265' of muddy salt water (80% water & 20% mud).

IHP 2182, 30" IFP 60-121, 45" ISIP 1245, 60" FFP 151-242, 60" FSIP 1215, FHP 2028, BHT 114°F

Sample chamber recovery was 200 cc of mud and 3800 cc of water at a pressure of 375 psi. Chamber capacity is 4000 cc.

Top recovery	Rw is	0.2 ohms	at	70°F	with chlorides of	35,000 ppm
Mid	"	.15	"	70	"	45,000 "
Bottom	"	.15	"	70	"	45,000 "
Sampler	"	.15	"	70	"	45,000 "
Pit		10.	"	130	"	300 "

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer, July 27, 1994. This was a good test mechanically.

DST No. 4, 4618-4640', Iola, 22' of anchor, 30 minute initial flow period opened with a strong blow (off bottom of bucket in two minutes), 45 minute initial shut in period, 60 minute final flow period opened with a strong blow (off bottom of bucket immediately), no gas at surface, 90 minute final shut in period, Recovered 3482' of gas in pipe and 30' of gas cut mud (5% gas & 95% mud). Gas would burn.

IHP 2158, 30" IFP 50-50, 45" ISIP 1064, 60" FFP 50-50, 90" FSIP 1417, FHP 2158, BHT 115°F

Sample chamber recovery was 4.5 cu ft of gas and 2500 cc of mud at a pressure of 1400 psi. Chamber capacity is 4000 cc.

Recovery	Rw is	.25 ohms	at	95°F	with chlorides of	25,000 ppm
Sampler	"	.25	"	95	"	25,000 "
Pit		2.5	"	90	"	1,900 "

Trilobite Testing Company, Scott City, Kansas, Gary Speer Engineer, July 28, 1994. This was a good test mechanically.

DST No. 5, 4814-4856', Swope Limestone, 42' of anchor, 30 minute initial flow period opened with a weak blow increasing to strong (off bottom of bucket in three minutes) no gas at surface, 60 minute initial shut in period, 60 minute final flow period opened with a weak blow slowly increasing to strong (off bottom in 15 minutes) no gas at surface, 120 minute final shut in period. Recovered 1294' of gas in pipe, 120' of gas & oil cut mud (10% gas, 5% oil & 85% mud) and 486' of mud cut saltwater (85% water & 15% mud)

IHP 2258, 30" IFP 91-161, 60" ISIP 1417, 60" FFP 202-313, 120" FSIP 1419, FHP 2258, BHT 118°F

Sample chamber recovery was 0.4 cu ft of gas, a spot of oil, and 4000 cc of water at a pressure of 800 psi. Chamber capacity is 4000 cc.

Top Rec. Rw	is 1.0 ohms at 90°F with chlorides of 4,300 ppm
Middle	" 0.1 " 95 " 55,000 "
Bottom	" 0.1 " 95 " 55,000 "
Sampler	" 0.1 " 95 " 55,000 "
Pit	" 1.0 " 90 " 4,300 "

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer,
July 29, 1994. This was a good test mechanically.

DST No. 6, 4870-4901', Hertha ?, 31' of anchor, 30 minute initial flow period opened with a weak blow increasing to strong (off bottom of bucket in ten minutes), 60 minute initial shut in period, 60 minute final flow period opened with a weak blow slowly increasing to strong (off bottom of bucket in 20 minutes) no gas at surface, 120 minute final shut in period, Recovered 1050' of total fluid: 300' of muddy saltwater (85% water & 15% mud), and 750' of muddy saltwater (98% water & 2% mud)

IHP 2248, 30" IFP 70-354, 60" ISIP 1508, 60" FFP 354-536, 120" FSIP 1518,
FHP 2248, BHT 119°F

Sample chamber recovery was 100 cc of mud and 3900 cc of water at a pressure of 600 psi. Chamber capacity is 4000 cc.

Top recovery Rw	is 0.3 ohms at 92°F with chlorides of 17,000 ppm
Middle	" 0.125 " 93 " 45,000 "
Bottom	" 0.123 " 92 " 47,000 "
Sampler	" 0.11 " 92 " 55,000 "
Pit	" 1.5 " 90 " 3,000 "

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer,
July 30, 1994. This was a good test mechanically.

DST No. 7, 4940-4994', Marmaton, 54' of anchor, 30 minute initial flow period opened with a strong blow (off bottom of bucket in 1/2 minute) with gas to surface in four minutes and guaged as follows thru a 1/2" choke:

81.8 mcf/d	10 minutes
121.0 "	20 "
129.0 "	30 "

90 minute initial shut in period, 60 minute final flow guaged as follows thru a 1/2" choke:

189.0 mcf/d	10 minutes
189.0 "	20 "
189.0 "	30 "
189.0 "	40 "
?	50 "
189.0 "	60 "

Gas would burn. 120 minute final shut in period, Recovered 4079' of gas in pipe, and 845' of fluid as follows: 300' of oil & gas cut mud (40% gas, 5% oil & 55% mud) and 545' of oil cut water (1% oil & 99% water)

IHP 2298, 30" IFP 202-253, 90" ISIP 1589, 60" FFP 212-384, 120" FSIP 1600, FHP 2298, BHT 121°F

Sample chamber recovery was 13.22 cu ft of gas at a pressure of 1500 psi. Chamber capacity is 4000 cc.

Middle recovery Rw	was 0.1 ohms	at 96°F	with chlorides of	50,000 ppm
Bottom	" 0.098	" 96	"	55,000 "
Sampler (all gas)				
Pit	" 0.75	" 90	"	6,000 "

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer, July 31, 1994. This was a good test mechanically.

DST No. 8, 5485-5512', Atoka, 27' of anchor, 30 minute initial flow period opened with a very weak blow slowly increasing (12" in water at end), 45 minute initial shut in period, 60 minute final flow period opened with a fair blow increasing to strong (off bottom of bucket in 25 minutes) no gas at surface, 90 minute final shut in period, Recovered 1160' of gas in pipe and 30' of gas, oil and water cut mud (10% gas, 5% oil, 5% water and 80% mud)

IHP2609, 30" IFP 60-60, 45" ISIP 506, 60" FFP 60-60, 90" FSIP 912, FHP 2589, BHT 122°F

Sample chamber recovery was 0.6 cu ft of gas, a spot of oil, 3500 cc of mud and 300 cc of water at a pressure of 675 psi. Chamber capacity is 4000 cc.

Recovery Rw	is 0.3 ohms	at 76°F	with chlorides of	21,000 ppm
Sampler	" 0.3	" 76	"	21,000 "
Pit	" 1.5	" 95	"	2,800 "

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer, August 2, 1994. This was a good test mechanically.

DST No. 9, 5530-5545', Morrow Sand, 15' of anchor, 30 minute initial flow period opened with a weak blow that died immediately, 30 minute initial shut in period, 30 minute final flow period opened with no blow, 30 minute final shut in period, Recovered 35' of mud cut water (70% water & 30% mud) No show of gas or oil.

IHP 2640, 30" IFP 30-40, 30" ISIP 1195, 30" FFP 50-50, 30" FSIP 861, FHP 2609, bht 130°F

Sample chamber recovery was 1200 cc of mud and 2800 cc of water at a pressure of 100 psi. Chamber capacity is 4000 cc.

Recovery Rw	is 0.32 ohms	at 72°F	with chlorides of	21,000 ppm
Sampler	" 0.32	" 72	"	21,000 "
Pit	" 1.25	" 90	"	3,500 "

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer, August 3, 1994. This was a good test mechanically.

DST No. 10, 5612-5621, Morrow Sand, nine feet of anchor, 30 minute initial flow period opened with a strong blow (off bottom of bucket in one minute) no gas at surface, 60 minute initial shut in period, 90 minute final flow period opened with a strong blow with gas to surface in 20 minutes and gauged as follows:

8.56	mcf/d	thru a 1/4"	choke	in 40	minutes
9.20	"	"	"	50	"
10.7	"	3/8"	"	60	"
10.7	"	"	"	70	"
10.7	"	"	"	80	"
11.3	"	"	"	90	"

Gas would burn, 180 minute final shut in period, Recovered 20' of gas

cut mud (5% gas & 95% mud)

IHP 2630, 30" IFP 30-30, 60" ISIP 1722, 90" FFP 25-25, 180" FSIP 1671,
FHP 2630, BHT 127°F

Sample chamber recovery was 13.3 cu ft of gas and 100 cc of mud at a pressure of 1600 psi. Chamber capacity is 4000 cc.

Recovery Rw is	1.5	ohms	at	75°F	with	chlorides	of	3,500	ppm
Sampler	"	1.5	"	75	"	"	"	3,500	"
Pit	"	1.25	"	90	"	"	"	3,500	"

Trilobite Testing Company, Scott City, Kansas, Gary Speer, Engineer,
August 4, 1994. This was a good test mechanically.

DST No. 11, 5676-5800', Chester Sand, 124' of anchor, 30 minute initial flow period opened with a weak blow slowly increasing to one inch in water in nine minutes then decreasing to 1/2" at end, 60 minute initial shut in period, 60 minute final flow period opened with no blow, 90 minute final shut in period, Recovered 60' of mud with no show of gas, oil or water.

IHP 2780, 30" IFP 56-63, 60" ISIP 126, 60" FFP 65-67, 90" FSIP 100,
FHP 2688, BHT 136°F

Sample chamber recovery was 2000 cc of mud at a pressure of 5 psi.
Chamber capacity is 3150 cc

Recovery Rw is	1.8	ohms	at	65°F	with	chlorides	of	3,500	ppm
Pit	"	1.7	"	70	"	"	"	3,500	"

Western Testing Co., Inc., Hugoton, Kansas, Lanny Saloga, Engineer,
August 6, 1994. This was a good test mechanically.

DST No. 12, 4988-5002', Marmaton, straddle run with tail pipe to T.D. of 5800', 14' of anchor, 45 minute initial flow period opened with a strong blow (off bottom of bucket in one minute) with gas to surface in 19 minutes and gauged as follows thru a 1/2" choke:

22.8	mcf/d	25	minutes
21.9	"	30	"
19.9	"	35	"
17.2	"	40	"
17.2	"	45	"

90 minute initial shut in period, 60 minute final flow period gauged as follows:

87.5	mcf/d	thru a	3/4"	choke	in	5	minutes
40.0	"	"	"	"	"	10	"
23.7	"	1/2"	"	"	"	15	"
20.9	"	"	"	"	"	20	"
21.9	"	"	"	"	"	25	"
22.8	"	"	"	"	"	30	"
22.8	"	"	"	"	"	35	"
24.5	"	"	"	"	"	40	"
24.5	"	"	"	"	"	45	"
25.1	"	"	"	"	"	50	"
No	guage	"	"	"	"	55	"
"	"	"	"	"	"	60	"

120 minute final shut in period, Recovered 995' of total fluid as follows:

75' of slightly oil & gas cut mud (7% oil, 3% gas & 90% mud)
 90' of slightly oil & gas cut and heavy mud cut water (2% oil, 5% gas,
 34% mud & 59% water)
 180' of slightly oil cut water (3% oil & 97% water)
 650' of slightly gas cut water (2% gas & 98% water)

IHP 2465, 45" IFP 156-306, 90" ISIP 1630, 60" FFP 289-446, 120" FSIP 1642,
 FHP 2390, BHT 127°F

Sample chamber recovery was 3.3 cu ft of gas, 50 cc of oil and 2200 cc
 of water at a pressure of 355 psi. Chamber capacity is 3150 cc.

Recovery R_w is 0.064 ohms at 65°F with chlorides of 140,000 ppm
 Pit " 0.90 65 7,300 "

Western Testing Co., Inc., Hugoton, Kansas, Lanny Saloga, Engineer,
 August 7 & 8, 1994. This was a good test mechanically.

Bit Record

Bit No.	Size	Make	Type	Out	Feet	Hours
1.	12 1/4"	Sec	S335	1357'	1357'	21 1/4
2.	"	HTC	X3A	1727'	330'	9 3/4
3.	7 7/8"	Sec	S83F	4368'	2641'	71 1/2
4.	"	HTC	ATJ11C	5800'	1432'	79 3/4

Deviations

257'	0°	2241'	1/2°	4368'	3/4°	5512'	1°
499	1/4	2677	1/4	4640	3/4	5545	1
989	1/8	3209	1/2	4856	1/4	5621	1
1727	0	3898	3/4	4901	1/2	5800	1/2

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL

ORIGINAL

Well Name DOUGLAS 1-11 Test No. 1 Date 7/23/94
 Company MURFIN DRILLING CO INC/CANYON ENERGY Zone HERINGTON
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS
API# 15-175-21406

Interval Tested 2640-2677 Drill Pipe Size 4.5" XH
 Anchor Length 37 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 2630 Drill Collar - 2.25 Ft. Run 575
 Bottom Packer Depth 2640 Mud Wt. _____ 8.7 lb/Gal.
 Total Depth 2677 Viscosity 40 Filtrate _____

Tool Open @ 4:50 P.M. Initial Blow INITIAL SURGE - NO BLOW
 Final Blow NO BLOW **RELEASED** NO
AUG 26

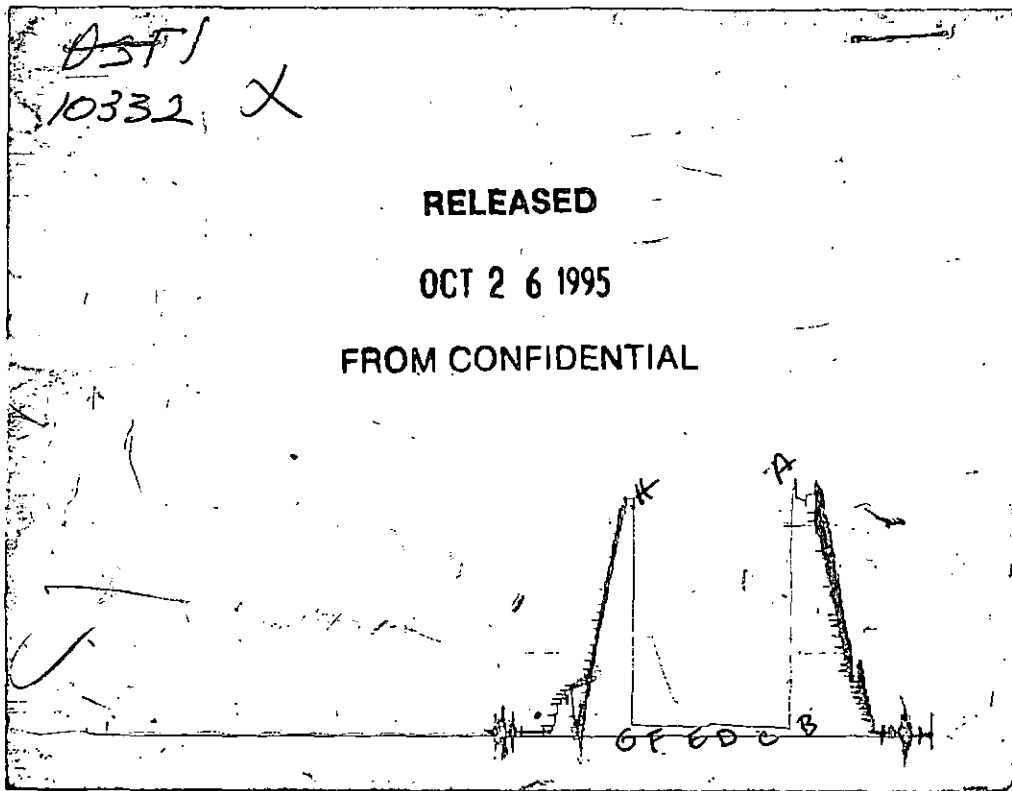
Recovery - Total Feet 10 **FROM CONFIDENTIAL** NO
 Rec. 10 Feet of DRILLING MUD 100% MUD

Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.25 @ 90 °F Chlorides 20000 ppm Recovery Chlorides 20000 ppm System
RECEIVED
STATE CORPORATION COMMISSION
AUG 29 1994
WICHITA, KANSAS
CONSERVATION DIVISION
4350

(A) Initial Hydrostatic Mud 1270.1 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 40.4 PSI @ (depth) 2641 w / Clock No. 25828
 (C) First Final Flow Pressure 40.4 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-in Pressure 54.6 PSI @ (depth) 2671 w / Clock No. 26199
 (E) Second Initial Flow Pressure 47.5 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 47.5 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 58.7 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 1247.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY SPEER



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1245	1270.1
(B) FIRST INITIAL FLOW PRESSURE	40	40.4
(C) FIRST FINAL FLOW PRESSURE	40	40.4
(D) INITIAL CLOSED-IN PRESSURE	50	54.6
(E) SECOND INITIAL FLOW PRESSURE	40	47.5
(F) SECOND FINAL FLOW PRESSURE	40	47.5
(G) FINAL CLOSED-IN PRESSURE	40	58.7
(H) FINAL HYDROSTATIC MUD	1245	1247.9

RECEIVED
STATE CORPORATION COMMISSION

AUG 29 1994

REGISTRATION DIVISION
WICHITA, KANSAS

FLUID SAMPLER DATA

ORIGINAL

CONFIDENTIAL

Ticket No.: 7193 Date: 7/23/94

Company: MURFIN DRILLING CO INC/CANYON ENERGY

RELEASED

Lease: DOUGLAS 1-11

Test No.: 1

OCT 26 1995

County: SEWARD

Sec.: 11

Twp.: 32S

FROM CONFIDENTIAL

SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas
Oil
Mud 4000
Water
Other
Pressure 50
TOTAL 4000

Chlorides 20000
Resistivity 0.25 ohms@ 90 F
Viscosity 40
Mud Wt. 87
Filtrate
Other

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity 0.25 ohms@ 90 F
Chlorides 20000 ppm.
Gravity corrected @60F

TOP
Resistivity 0.25 ohms@ 90 F
Chlorides 20000 ppm

AUG 29 1994

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

Test Ticket ORIGINAL No. 7193

Well Name & No. Douglas 1-11 Test No. 1 Date 7-23-94
 Company Murfin Drly / Canyon Zone Tested Herington
 Address 250 N Water, Suite 300 Wichita Elevation 2823 (GL)
 Co. Rep./Geo. Paul Godowic cont. Murfin Drly Co. #21 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 32 Rge. 32 Co. Seward State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2640 - 2677 Drlll Pipe Size 4 1/2 XH
 Anchor Length 37' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 2630 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 2640 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2677 Drlll Collar — 2.25 Ft. Run 575
 Mud Wt. 8.7 lb/gal. Viscosity 40 Filtrate _____ AUG 29 1994
 Tool Open @ 4:50 PM Initial Blow Initial surge - no blow

Final Blow No blow

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>10</u>	<u>Drly Mud</u>	<u>NO</u>
Rec. <u>10</u> Feet Of _____	%gas _____ %oil _____ %water <u>100%</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 2.5 @ 90 °F Chlorides 20,000 ppm Recovery Chlorides 20,000 ppm System
 (A) Initial Hydrostatic Mud 1245 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 40 PSI @ (depth) 2641 w/Clock No. 25828
 (C) First Final Flow Pressure 40 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-In Pressure 50 PSI @ (depth) 2671 w/Clock No. 26199
 (E) Second Initial Flow Pressure 40 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 40 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 40 PSI Initial Opening 30 Test 1000
 (H) Final Hydrostatic Mud 1245 PSI Initial Shut-In 30 Jars _____

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Approved By Paul Godowic Final Flow 30 Safety Joint _____
 Our Representative Gary Speer Final Shut-In 30 Straddle _____
 Circ. Sub NC
 Sampler 200
 Extra Packer _____ Other _____
 TOTAL PRICE \$ 800

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

CONFIDENTIAL

ORIGINAL

FLUID SAMPLER DATA

Ticket No. 7193 Date 7-23-94
Company Name Martin Drlg / Canyon
Lease Douglas 1-11 Test No. 1
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4,000 ML
Water _____ ML
Other _____ ML
Pressure 50 PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 20,000 ppm.
Resistivity .25 ohms @ 90 F
Viscosity 40
Mud Weight 87
Filtrate _____
Other _____

SAMPLER ANALYSIS

Resistivity .25 ohms @ 90 F
Chlorides 20,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

AUG 2nd

TOP
Resistivity .25 ohms @ 90 F
Chlorides 20,000 ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

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TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name DOUGLAS 1-11 Test No. 2 Date 7/24/94
 Company MURFIN DRILLING CO INC/CANYON ENERGY Zone KRIDER
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested	<u>2695-2730</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>35</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2685</u>	Drill Collar - 2.25 Ft. Run	<u>575</u>
Bottom Packer Depth	<u>2695</u>	Mud Wt.	<u>8.8</u> lb/Gal.
Total Depth	<u>2730</u>	Viscosity	<u>40</u> Filtrate _____

Tool Open @ 7:25 A.M. ^{Initial} Blow SURFACE TO 2" BLOW
 Final Blow FROM 1" @ OPEN TO 3" BLOW

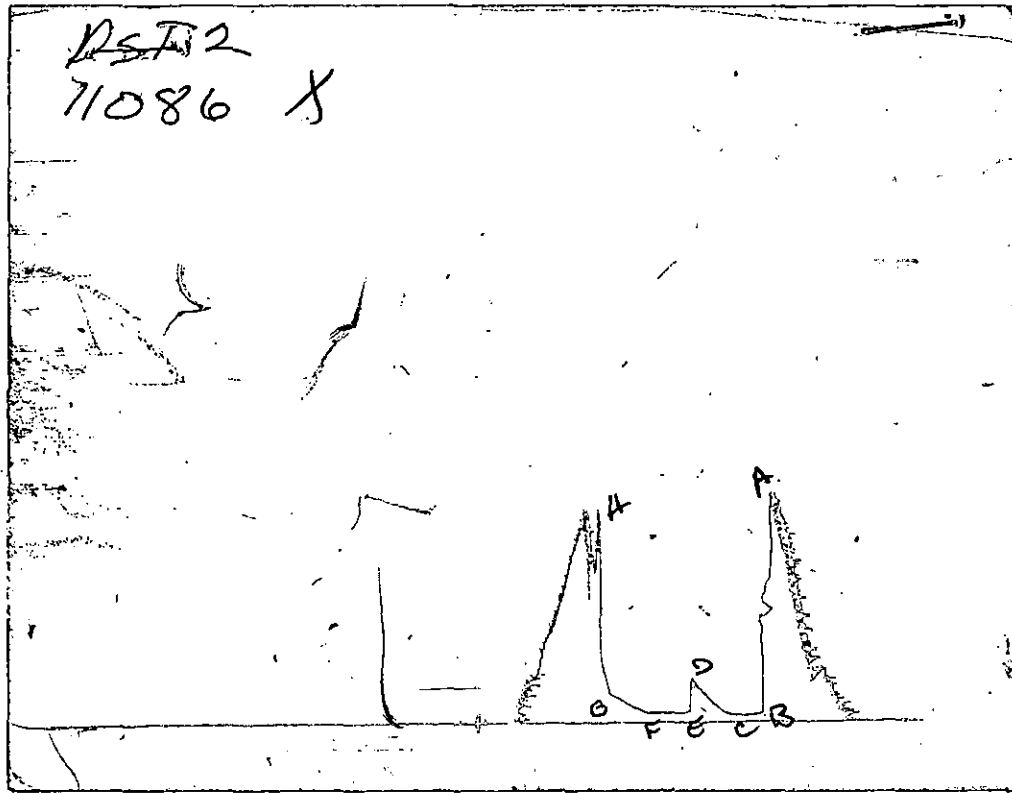
Recovery - Total Feet 65 Flush Tool? NO AUG 29 1994

Rec. 65 Feet of WATER CUT MUD 10% WATER/90% MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

BHT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.3 @ 75 °F Chlorides 20000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1225.9 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 51.3 PSI @ (depth) 2697 w / Clock No. 25828
 (C) First Final Flow Pressure 62.2 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-in Pressure 263.0 PSI @ (depth) 2724 w / Clock No. 26199
 (E) Second Initial Flow Pressure 74.2 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 74.2 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 184.4 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 1225.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY SPEER



AUG 29 1994

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1205	1225.9
(B) FIRST INITIAL FLOW PRESSURE	43	51.3
(C) FIRST FINAL FLOW PRESSURE	54	62.2
(D) INITIAL CLOSED-IN PRESSURE	229	263
(E) SECOND INITIAL FLOW PRESSURE	54	74.2
(F) SECOND FINAL FLOW PRESSURE	54	74.2
(G) FINAL CLOSED-IN PRESSURE	152	184.4
(H) FINAL HYDROSTATIC MUD	1205	1225.9

FLUID SAMPLER DATA

CONFIDENTIAL

ORIGINAL

Ticket No.: 7194 Date: 7/24/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: DOUGLAS 1-11 Test No.: 2
 County: SEWARD Sec.: 11 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas
 Oil
 Mud 4000
 Water
 Other
 Pressure 175
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 8000
 Resistivity 0.7 ohms@ 75 F
 Viscosity 40
 Mud Wt. 8.8
 Filtrate
 Other

AUG 29 1994

SAMPLER ANALYSIS

Resistivity 0.3 ohms@ 75 F
 Chlorides 20000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity 0.3 ohms@ 75 F
 Chlorides 20000 ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

Test Ticket

No 7194

Well Name & No. Douglas 1-11 Test No. 2 Date 7-24-94
 Company Murfin D-1g / Canyon Zone Tested Krider
 Address 250 W Water Suite 300 Wichita Elevation 2823 (GL)
 Co. Rep./Geo. Paul Godowic Cont. Murfin D-1g Co. #12 Est. Ft. of Pay 22
 Location: Sec. 11 Twp. 32 Rge. 32 Co. Seward State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2685 - ~~2730~~ 2730 Drill Pipe Size 4 1/2 x H
 Anchor Length 35' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 2685 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 2685 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2730 Drill Collar — 2.25 Ft. Run 575
 Mud Wt. 8.8 lb/gal. Viscosity 40 Filtrate _____
 Tool Open @ 7:25 AM Initial Blow Surface to 2" blow

Final Blow From 1" @ open to 3" blow AUG 2 1994

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>65</u>	<u>WC 117</u>	<u>No</u>
Rec. <u>65</u> Feet Of	<u>WC 117</u>	%gas _____ %oil <u>10</u> %water <u>90</u> %mud _____
Rec. _____ Feet Of		%gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet Of		%gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet Of		%gas _____ %oil _____ %water _____ %mud _____
Rec. _____ Feet Of		%gas _____ %oil _____ %water _____ %mud _____

BHT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .3 @ 75 °F Chlorides 20,000 ppm Recovery Chlorides 8,000 ppm System
 (A) Initial Hydrostatic Mud 1205 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 43 PSI @ (depth) 2697 w/Clock No. 25828
 (C) First Final Flow Pressure 54 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-In Pressure 229 PSI @ (depth) 2784 w/Clock No. 26199
 (E) Second Initial Flow Pressure 54 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 54 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 152 PSI Initial Opening 30 Test 600
 (H) Final Hydrostatic Mud 1205 PSI Initial Shut-in 30 Jars _____

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Approved By Paul F Godowic Final Flow 30 Safety Joint _____
 Our Representative Gary Speer Final Shut-in 30 Straddle _____
 Circ. Sub UC
 Sampler 200
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 800

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7194 Date 7-24-94
Company Name Murfin D-1g / Canyon
Lease Douglas 1-11 Test No. 2
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4,000 ML
Water _____ ML
Other _____ ML
Pressure 175 PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 8,000 ppm.
Resistivity .7 ohms @ 75 F
Viscosity 40
Mud Weight 8.8
Filtrate _____
Other _____

2-9-1994

SAMPLER ANALYSIS

Resistivity .3 ohms @ 75 F
Chlorides 20,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .3 ohms @ 75 F
Chlorides 20,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name DOUGLAS 1-11 Test No. 3 Date 7/27/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone LANSING
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay 10
Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 4340-4368 Drill Pipe Size 4.5" XH
Anchor Length 28 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4330 Drill Collar - 2.25 Ft. Run 575
Bottom Packer Depth 4340 Mud Wt. 8.9 lb/Gal.
Total Depth 4368 Viscosity 51 Filtrate 9.0

Tool Open @ 4:55 A.M. Initial Blow WEAK SURFACE BLOW, BUILT TO 4"
Final Blow WEAK SURFACE BLOW, BUILT TO 2"

Recovery - Total Feet 425 Flush Tool? NO

Rec. 60 Feet of WATER CUT MUD 5% WATER/95% MUD
Rec. 365 Feet of MUDDY SALT WATER 80% WATER/20% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.15 @ 70 °F Chlorides 45000 ppm Recovery Chlorides 300 ppm System

(A) Initial Hydrostatic Mud 2175.0 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 80.9 PSI @ (depth) 4342 w / Clock No. 25828

(C) First Final Flow Pressure 126.5 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1233.8 PSI @ (depth) 4362 w / Clock No. 26199

(E) Second Initial Flow Pressure 145.7 PSI AK1 Recorder No. _____ Range _____

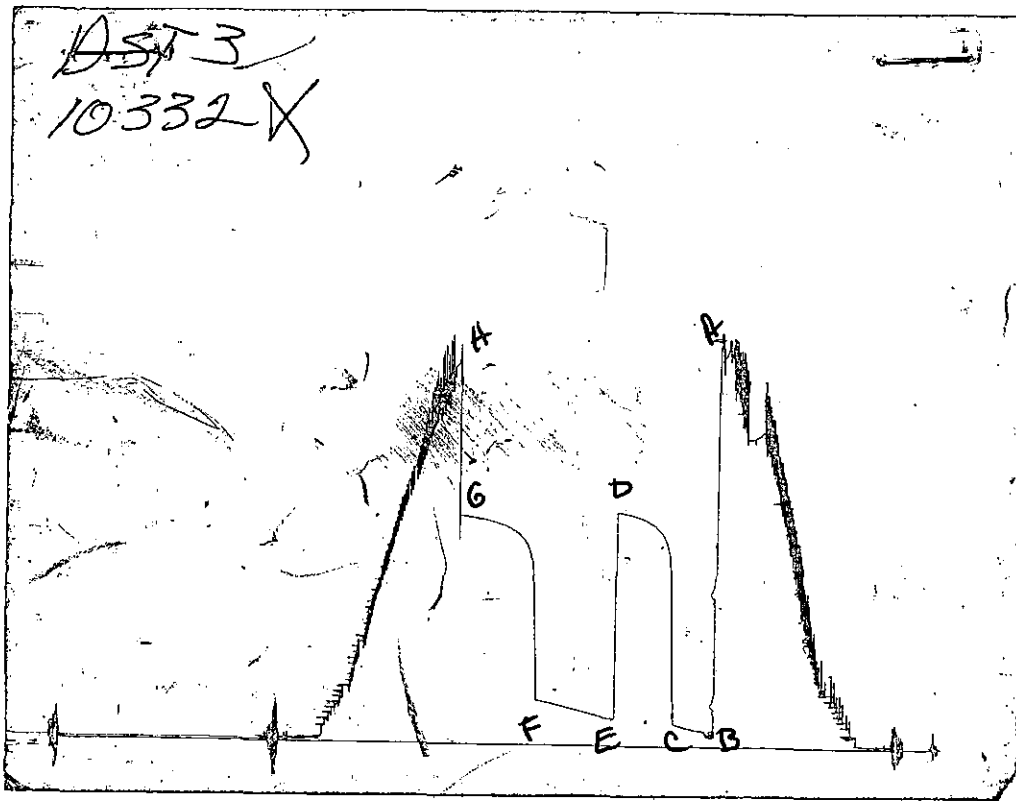
(F) Second Final Flow Pressure 242.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1206.6 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2096.0 PSI Initial Shut-in 45 Final Shut-in 60

Our Representative GARY SPEER

CHART PAGE



AUG 29 1934

This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2182	2175
(B) FIRST INITIAL FLOW PRESSURE	60	80.9
(C) FIRST FINAL FLOW PRESSURE	121	126.5
(D) INITIAL CLOSED-IN PRESSURE	1245	1233.8
(E) SECOND INITIAL FLOW PRESSURE	151	145.7
(F) SECOND FINAL FLOW PRESSURE	242	242.9
(G) FINAL CLOSED-IN PRESSURE	1215	1206.6
(H) FINAL HYDROSTATIC MUD	2028	2096

Test Ticket

No 7195

Well Name & No. Douglas 1-11 Test No. 3 Date 7-27-94
 Company Murfin Drk / Canyon Zone Tested Lansing
 Address 2500 Water Suite 300 Wichita Elevation 2823 (GL)
 Co. Rep./Geo. Paul Godowic cont. Murfin Drk Co #22 Est. Ft. of Pay 10
 Location: Sec. 11 Twp. 32 Rge. 32 ✓ Co. Seward state Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4340-4368 Drill Pipe Size 4 1/2 x #
 Anchor Length 28 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4330 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4340 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4368 Drill Collar — 2.25 Ft. Run 575
 Mud Wt. 8.9 lb/gal. Viscosity 51 Filtrate 9.0
 Tool Open @ 4:55 AM Initial Blow Weak surface blow, built to 4"

Final Blow Weak surface blow, built to 2" AUG 29 1994

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>425</u>	_____	<u>NO</u>
Rec. <u>60</u> Feet Of <u>W.C.M</u>	%gas _____ %oil _____	%water <u>5</u> %mud <u>95</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. <u>365</u> Feet Of <u>Muddy salt water</u>	%gas _____ %oil _____	%water <u>80</u> %mud <u>20</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____

BHT 114 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .15 @ 70 °F Chlorides 45,000 ppm Recovery Chlorides 300 ppm System

(A) Initial Hydrostatic Mud 2182 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 60 PSI @ (depth) 4342 w/Clock No. 25828
 (C) First Final Flow Pressure 121 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-In Pressure 1245 PSI @ (depth) 4362 w/Clock No. 26199
 (E) Second Initial Flow Pressure 151 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 242 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1215 PSI Initial Opening 30 Test 600
 (H) Final Hydrostatic Mud 2028 PSI Initial Shut-In 45 Jars 200

Final Flow 60 Safety Joint 50
 Final Shut-In 60 Straddle _____
 Circ. Sub UC
 Sampler 200

Approved By Gary F. Godowic
 Our Representative Gary Speer

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TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7195 Date 7-27-94
Company Name Murfin Drly/Canyon
Lease Douglas 1-11 Test No. 3
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 200 ML
Water 3800 ML
Other _____ ML
Pressure 375 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 300 ppm.
Resistivity 10 ohms @ 130 F
Viscosity 51
Mud Weight 8.9
Filtrate 9.0
Other LCM #1

AUG 29 1994

SAMPLER ANALYSIS

Resistivity .15 ohms @ 70 F
Chlorides 45,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .2 ohms @ 70 F
Chlorides 35,000 ppm.

MIDDLE
Resistivity .15 ohms @ 70 F
Chlorides 45,000 ppm.

BOTTOM
Resistivity .15 ohms @ 70 F
Chlorides 45,000 ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DOUGLAS 1-11 Test No. 4 Date 7/28/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone IOLA
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay 7
Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested	<u>4618-4640</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>22</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u> </u>
Top Packer Depth	<u>4608</u>	Drill Collar - 2.25 Ft. Run	<u>575</u>
Bottom Packer Depth	<u>4618</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>4640</u>	Viscosity	<u>49</u> Filtrate <u>10</u>

Tool Open @ 8:27 A.M. Initial Blow STRONG BLOW ON SURFACE-BOTTOM OF BUCKET IN
2 MIN - OPENED 2"
Final Blow BOTTOM OF BUCKET @ OPEN - OPENED 2"

Recovery - Total Feet 30 Flush Tool? NO

Rec. <u>3482</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>30</u>	Feet of	<u>GASSY MUD 5%GAS/95%MUD</u>
Rec. <u> </u>	Feet of	<u> </u>
Rec. <u> </u>	Feet of	<u> </u>
Rec. <u> </u>	Feet of	<u> </u>

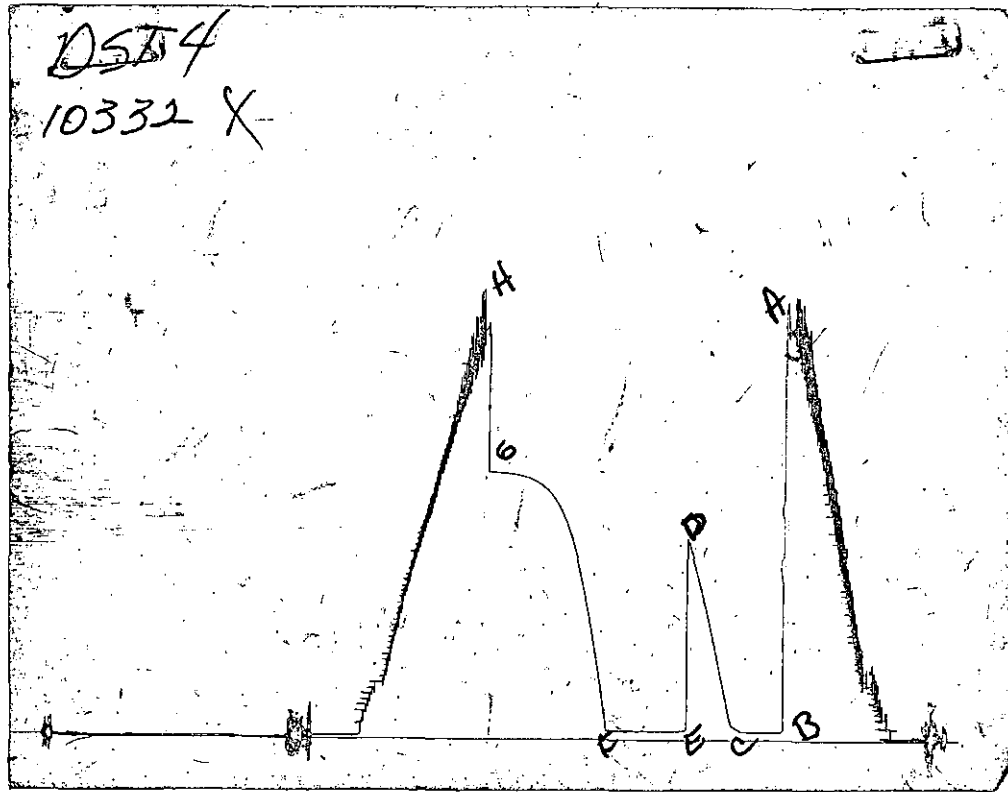
AUG 29 1994

BHT 115 °F Gravity °API @ °F Corrected Gravity °API
RW 0.25 @ 95 °F Chlorides 25000 ppm Recovery Chlorides 19000 ppm System

(A) Initial Hydrostatic Mud	<u>2217.0</u> PSI	AK1 Recorder No.	<u>11086</u>	Range	<u>4350</u>
(B) First Initial Flow Pressure	<u>40.4</u> PSI	@ (depth)	<u>4624</u>	w / Clock No.	<u>25828</u>
(C) First Final Flow Pressure	<u>40.4</u> PSI	AK1 Recorder No.	<u>10332</u>	Range	<u>4050</u>
(D) Initial Shut-in Pressure	<u>1057.4</u> PSI	@ (depth)	<u>4634</u>	w / Clock No.	<u>26199</u>
(E) Second Initial Flow Pressure	<u>49.5</u> PSI	AK1 Recorder No.	<u> </u>	Range	<u> </u>
(F) Second Final Flow Pressure	<u>49.5</u> PSI	@ (depth)	<u> </u>	w / Clock No.	<u> </u>
(G) Final Shut-in Pressure	<u>1414.3</u> PSI	Initial Opening	<u>30</u>	Final Flow	<u>60</u>
(H) Final Hydrostatic Mud	<u>2198.0</u> PSI	Initial Shut-in	<u>45</u>	Final Shut-in	<u>90</u>

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 10332

AUG 29 1994

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2158	2217
(B) FIRST INITIAL FLOW PRESSURE	50	40.4
(C) FIRST FINAL FLOW PRESSURE	50	40.4
(D) INITIAL CLOSED-IN PRESSURE	1064	1057.4
(E) SECOND INITIAL FLOW PRESSURE	50	49.5
(F) SECOND FINAL FLOW PRESSURE	50	49.5
(G) FINAL CLOSED-IN PRESSURE	1417	1414.3
(H) FINAL HYDROSTATIC MUD	2158	2198

FLUID SAMPLER DATA

Ticket No.: 7196 Date: 7/28/94
Company: MURFIN DRILLING CO INC/CANYON ENERGY
Lease: DOUGLAS 1-11 Test No.: 4
County: SEWARD Sec.: 11 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas 4.5
Oil
Mud 2500
Water
Other
Pressure 1400
TOTAL 2500

SAMPLER ANALYSIS

Resistivity 0.25 ohms@ 95 F
Chlorides 25000 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 1900
Resistivity 2.5 ohms@ 90 F
Viscosity 49
Mud Wt. 9
Filtrate 10
Other LCM TRA

PIPE RECOVERY

TOP

Resistivity 0.25 ohms@ 95 F
Chlorides 25000 ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

AUG 27 1994

RECEIVED
STATE CORPORATION COMMISSION
AUG 29 1994
F
CONSERVATION DIVISION
WICHITA, KANSAS

Test Ticket

No 7196

Well Name & No. <u>Douglas 1-11</u>	Test No. <u>4</u>	Date <u>7-28-94</u>
Company <u>Murphy Drilling / Canyon</u>	Zone Tested <u>IOLA</u>	
Address <u>250 N Water Suite 300 Wichita</u>	Elevation <u>2823 (GL)</u>	
Co. Rep./Geo. <u>Paul Godwin</u>	Cont. <u>Murphy Drilling #22</u>	Est. Ft. of Pay <u>7</u>
Location: Sec. <u>11</u>	Twp. <u>32</u>	Rge. <u>32</u> Co. <u>Seward</u> State <u>Ks</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested <u>4618 - 4640</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>22'</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>4608</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>4618</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>4640</u>	Drill Collar — 2.25 Ft. Run <u>575</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>49</u> Filtrate <u>10</u>
Tool Open @ <u>8:27 AM</u> Initial Blow <u>Strong blow on surface - Bottom of bucket in 2 min. - opened 2"</u>	
Final Blow <u>Bottom of bucket @ open - opened 1"</u>	

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Recovery — Total Feet <u>30</u>	Feet of Gas In Pipe <u>3482 faint small</u>	Flush Tool? <u>NO</u>
Rec. <u>30</u> Feet Of <u>GM</u>	<u>5</u> %gas	%oil _____ %water <u>95</u> %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .25 @ 95 °F Chlorides 25,000 ppm Recovery Chlorides 1,900 ppm System

(A) Initial Hydrostatic Mud <u>2158</u>	PSI AK1 Recorder No. <u>11086</u>	Range <u>4350</u>
(B) First Initial Flow Pressure <u>50</u>	PSI @ (depth) <u>4624</u>	w/Clock No. <u>25-828</u>
(C) First Final Flow Pressure <u>50</u>	PSI AK1 Recorder No. <u>10332</u>	Range <u>4050</u>
(D) Initial Shut-In Pressure <u>1064</u>	PSI @ (depth) <u>4634</u>	w/Clock No. <u>26199</u>
(E) Second Initial Flow Pressure <u>50</u>	PSI AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>50</u>	PSI @ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>1417</u>	PSI Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>600</u>
(H) Final Hydrostatic Mud <u>2158</u>	PSI Initial Shut-In <u>45</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
	Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
	Final Shut-In <u>90</u>	Straddle _____

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Approved By Paul F. Godwin

Our Representative Gary Speer

Circ. Sub NC

Sampler 200

Extra Packer _____

Other _____

TOTAL PRICE \$ 1050

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7196 Date 7-28-94
Company Name Murfin Drlg / Canyon
Lease Douglas J-11 Test No. 4
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas 4.5 aft. ML
Oil _____ ML
Mud 2500 ML
Water _____ ML
Other _____ ML
Pressure 1400 PSI
Total 2500 ML

Gas would Burn

SAMPLER ANALYSIS

Resistivity .25 ohms @ 95 F
Chlorides 25,000 ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 1,900 ppm.
Resistivity 2.5 ohms @ 90 F
Viscosity 49
Mud Weight 9.0
Filtrate 10
Other LCM - Trace

AUG 29 1994

PIPE RECOVERY

TOP
Resistivity .25 ohms @ 95 F
Chlorides 25,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name DOUGLAS 1-11 Test No. 5 Date 7/28/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone SWOPE
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay _____
Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 4814-4856 Drill Pipe Size 4.5" XH
Anchor Length 42 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4804 Drill Collar - 2.25 Ft. Run 575
Bottom Packer Depth 4814 Mud Wt. 8.9 lb/Gal.
Total Depth 4856 Viscosity 48 Filtrate 12.8

Tool Open @ 10:10 A.M. Initial Blow WEAK SURFACE BLOW BUILT TO BOTTOM OF BUCKET-
OPENED 2" IN 3 MIN

Final Blow WEAK SURFACE TO BOTTOM OF BUCKET IN 15 MIN

Recovery - Total Feet 606 Flush Tool? NO

Rec. 1294 Feet of GAS IN PIPE
Rec. 120 Feet of GAS OIL CUT MUD 10%GAS/5%OIL/85%MUD
Rec. 486 Feet of MUDDY SALT WATER 85&WATER/15%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

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BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.1 @ 95 °F Chlorides _____ ppm Recovery Chlorides 4300 ppm System

(A) Initial Hydrostatic Mud 2273.0 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 81.9 PSI @ (depth) 4816 w / Clock No. 25828

(C) First Final Flow Pressure 146.7 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1418.3 PSI @ (depth) 4850 w / Clock No. 26199

(E) Second Initial Flow Pressure 185.2 PSI AK1 Recorder No. _____ Range _____

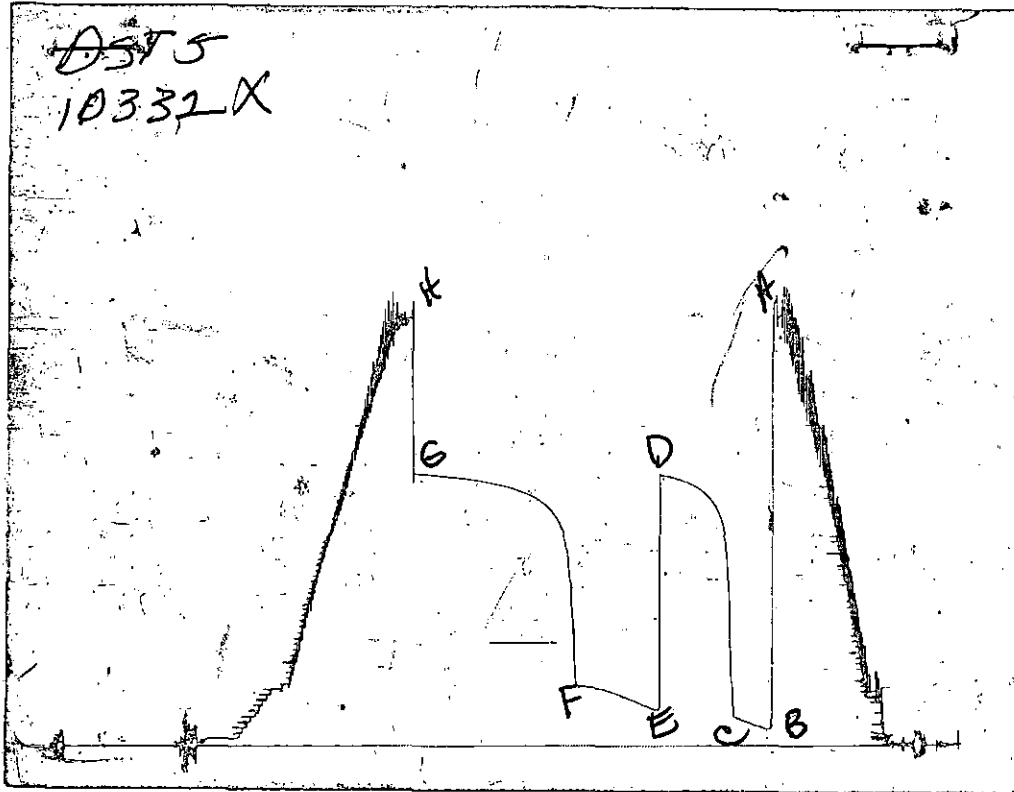
(F) Second Final Flow Pressure 312.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1429.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2252.0 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of recorder chart 10332

AUG 29 1994

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2258	2273
(B) FIRST INITIAL FLOW PRESSURE	91	81.9
(C) FIRST FINAL FLOW PRESSURE	161	146.7
(D) INITIAL CLOSED-IN PRESSURE	1417	1418.3
(E) SECOND INITIAL FLOW PRESSURE	202	185.2
(F) SECOND FINAL FLOW PRESSURE	313	312.7
(G) FINAL CLOSED-IN PRESSURE	1419	1429.4
(H) FINAL HYDROSTATIC MUD	2258	2252

FLUID SAMPLER DATA

Ticket No.: 7197 Date: 7/29/94
Company: MURFIN DRILLING CO INC/CANYON ENERGY
Lease: DOUGLAS 1-11 Test No.: 5
County: SEWARD Sec.: 11 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas 0.4
Oil SPOT
Mud
Water 4000
Other
Pressure 800
TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.1 ohms@ 95 F
Chlorides 55000 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 4300
Resistivity 1 ohms@ 90 F
Viscosity 48
Mud Wt. 8.9
Filtrate 12.8
other LCM #2

12 AUG 28 1994

PIPE RECOVERY

TOP

Resistivity 1 ohms@ 90 F
Chlorides 4300 ppm

MIDDLE

Resistivity 0.1 ohms@ 95 F
Chlorides 55000 ppm

BOTTOM

Resistivity 0.1 ohms@ 95 F
Chlorides 55000 ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7197

Well Name & No. Douglas 1-11 Test No. 5 Date 7-28-94
 Company Martin Drilling / Canyon Zone Tested Swope
 Address 250 N Water Suite 300 Wichita Elevation 2823 (GL)
 Co. Rep./Geo. Paul Godowic cont. Martin Drilling Est. Ft. of Pay _____
 Location: Sec. 11 Twp. 32 Rge. 32 Co. Seward State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4814 - 4856 Drill Pipe Size 4 1/2 x H
 Anchor Length 42 Top Choke - 1" _____ Bottom Choke - 1/4" _____
 Top Packer Depth 4804 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Bottom Packer Depth 4814 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Total Depth 4856 Drill Collar - 2.25 Ft. Run 575
 Mud Wt. 8.9 lb/gal. Viscosity 48 Filtrate 12.8
 Tool Open @ 10:10 AM Initial Blow Weak surface blow built to bottom of bucket - opened 2" in 3 min
 Final Blow Weak surface to bottom of bucket in 15 min

AUG 29 1994

Recovery - Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>606</u>	<u>1294</u>	<u>NO</u>
Rec. <u>120</u> Feet Of _____	<u>900 M</u>	<u>10% gas 5% oil 85% water 85% mud</u>
Rec. _____ Feet Of _____		<u>% gas % oil % water % mud</u>
Rec. _____ Feet Of _____		<u>% gas % oil % water % mud</u>
Rec. <u>486</u> Feet Of <u>1M SW</u>		<u>% gas % oil 85% water 15% mud</u>
Rec. _____ Feet Of _____		<u>% gas % oil % water % mud</u>

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 10 @ 95 °F Chlorides _____ ppm Recovery Chlorides 4,300 ppm System
 (A) Initial Hydrostatic Mud 2258 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 91 PSI @ (depth) 4816 w/Clock No. 25828
 (C) First Final Flow Pressure 161 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-in Pressure 1417 PSI @ (depth) 4850 w/Clock No. 26199
 (E) Second Initial Flow Pressure 202 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 313 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 1419 PSI Initial Opening 30 Test 600
 (H) Final Hydrostatic Mud 2258 PSI Initial Shut-in 60 Jars 200

Final Flow 60 Safety Joint 50
 Final Shut-in 120 Straddle _____
 Circ. Sub AC
 Sampler 200
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 1050

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Approved By Gary Speer
 Our Representative Gary Speer

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7197 Date 7-29-94
Company Name Murfin Drlg/Canyon
Lease Douglas 1-11 Test No. 15
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas .4 cu.ft. ML
Oil SPOT ML
Mud _____ ML
Water 4000 ML
Other _____ ML
Pressure 800 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 4,300 ppm
Resistivity 1.0 ohms @ 90 F
Viscosity 48
Mud Weight 9.9
Filtrate 12.8
Other LCM #2

AUG 29 1994

SAMPLER ANALYSIS

Resistivity .1 ohms @ 95 F
Chlorides 55,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

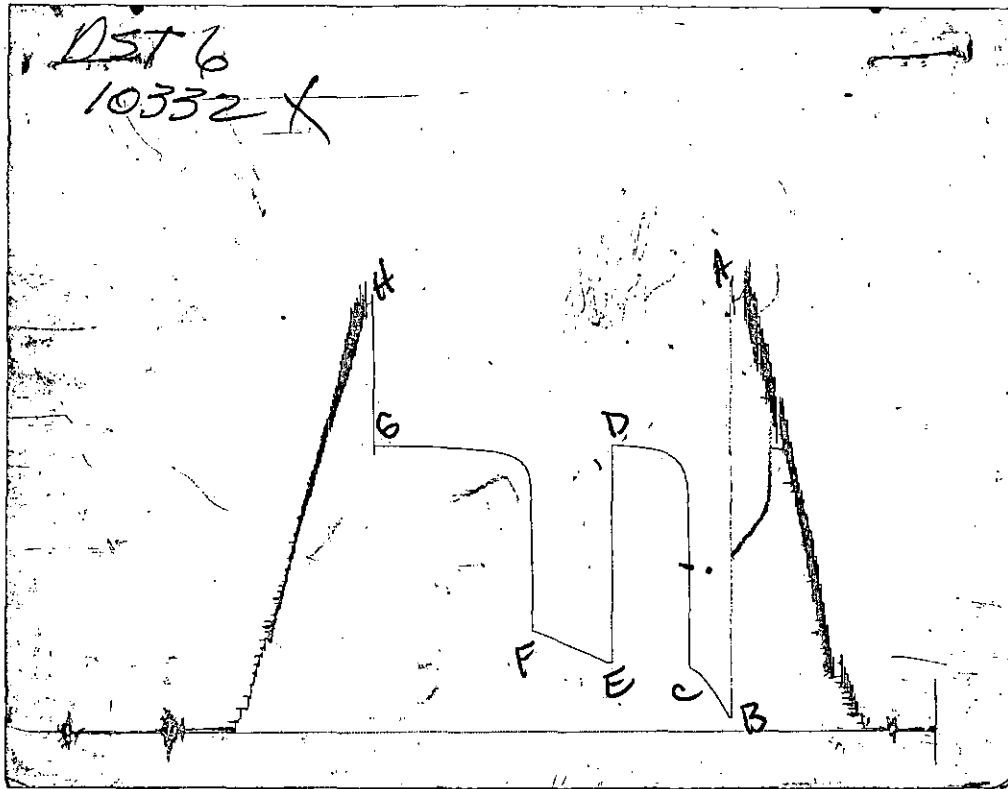
TOP
Resistivity 1.0 ohms @ 90 F
Chlorides 4,300 ppm.

MIDDLE
Resistivity .1 ohms @ 95 F
Chlorides 55,000 ppm.

BOTTOM
Resistivity .1 ohms @ 95 F
Chlorides 55,000 ppm.

OK-PTG

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2248	2273
(B) FIRST INITIAL FLOW PRESSURE	70	70.8
(C) FIRST FINAL FLOW PRESSURE	354	338
(D) INITIAL CLOSED-IN PRESSURE	1508	1507.2
(E) SECOND INITIAL FLOW PRESSURE	354	364.3
(F) SECOND FINAL FLOW PRESSURE	536	527.4
(G) FINAL CLOSED-IN PRESSURE	1518	1504.2
(H) FINAL HYDROSTATIC MUD	2248	2253

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number:	940395	Analyzed:	08/08/94
Sample From:	#1-20 Hammond DST 6	Pressure:	
Producer:	Cross Bar Petroleum	Temperature:	
Date:		Location:	20-29S-17W
Time:		County:	Kiowa
Sampler:		State:	Kansas
Source:		Formation:	Mississippi

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	2.023
Carbon Dioxide	CO2:	0.021
Methane	C1:	91.585
Ethane	C2:	3.800
Propane	C3:	1.404
Iso Butane	iC4:	0.212
Normal Butane	nC4:	0.441
Iso Pentane	iC5:	0.103
Normal Pentane	nC5:	0.140
Hexanes Plus	C6+:	0.271

TOTAL: 100.000 1.818
Z Fact: 0.9977
SP.GR.: 0.6173
BTU (SAT): 1058.7 @ 14.73 psia
BTU (DRY): 1077.4 @ 14.73 psia
OCTANE RATING: 125.2

COMMENTS: Insufficient pressure for Helium analysis

Test Ticket

No 7198

Well Name & No. Douglas 1-11 Test No. 6 Date 7-20-94
 Company Murfin Drly/Canyon Zone Tested Hertha
 Address 250 N Water Suite 300 Wichita Elevation 2823 (GL)
 Co. Rep./Geo. Paul Godowic cont. Murfin Drly #22 Est. Ft. of Pay 27'
 Location: Sec. 11 Twp. 32 Rge. 32 Co. Seward State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4870-4901 Drill Pipe Size 4 1/2 x H
 Anchor Length ~~30~~ 31' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4860 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" AUG 29 1994
 Bottom Packer Depth 4870 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4901 Drill Collar — 2.25 Ft. Run 575
 Mud Wt. 8.9 lb/gal. Viscosity 44 Filtrate 10.4
 Tool Open @ 6:50 AM Initial Blow Weak surface to bottom of bucket
blow in 10 min.
 Final Blow Blow built slowly from surface to bottom
of bucket in 20 min.
 Recovery — Total Feet 1050 Feet of Gas In Pipe _____ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>300</u>	<u>M SW</u>		<u>85</u>	<u>15</u>	
<u>750</u>	<u>M SW</u>		<u>98</u>	<u>2</u>	

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW .125 @ 92 °F Chlorides 45,000 ppm Recovery Chlorides 3,000 ppm System

- (A) Initial Hydrostatic Mud 2248 PSI AK1 Recorder No. 11086 Range 4350
- (B) First Initial Flow Pressure 70 PSI @ (depth) 4872 w/Clock No. 25828
- (C) First Final Flow Pressure 354 PSI AK1 Recorder No. 10332 Range 4050
- (D) Initial Shut-In Pressure 1508 PSI @ (depth) 4895 w/Clock No. 26199
- (E) Second Initial Flow Pressure 354 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 536 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 1518 PSI Initial Opening 30 Test 600
- (H) Final Hydrostatic Mud 2248 PSI Initial Shut-In 60 Jars 200

Final Flow 60 Safety Joint 50
 Final Shut-In 120 Straddle _____
 Circ. Sub RECEIVED
 Sampler _____ STATE CORPORATION COMMISSION

Approved By Paul F. Godowic
 Our Representative Gary Speer

Extra Packer AUG 29 1994
 Other _____
 TOTAL PROBLEMS _____
 CONSERVATION DIVISION
 WICHITA, KANSAS

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7198 Date 7-30-94 AUG 29 1994
Company Name Martin Drlg / Canyon
Lease Douglas 1-11 Test No. 2
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 100 ML
Water 3900 ML
Other _____ ML
Pressure 600 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 3,000 ppm.
Resistivity 1.5 ohms @ 90 F
Viscosity 44
Mud Weight 8.9
Filtrate 10.4
Other LCM Trace

SAMPLER ANALYSIS

Resistivity 11 ohms @ 92 F
Chlorides 55,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .3 ohms @ 92 F
Chlorides 17,000 ppm.
MIDDLE
Resistivity .125 ohms @ 93 F
Chlorides 45,000 ppm.
BOTTOM
Resistivity .123 ohms @ 92 F
Chlorides 47,000 ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DOUGLAS 1-11 Test No. 7 Date 7/31/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone MARMATON
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay 10
Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 4940-4994 Drill Pipe Size 4.5" XH
Anchor Length 54 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4930 Drill Collar - 2.25 Ft. Run 575
Bottom Packer Depth 4940 Mud Wt. 9.1 lb/Gal.
Total Depth 4994 Viscosity 54 Filtrate 10.4

Tool Open @ 6:05 A.M. Initial Blow STRONG BLOW, BOTTOM OF BUCKET IN 1/2 MIN.
GAS TO SURFACE IN 4 MIN

Final Blow GAS TO SURFACE AT OPEN

Recovery - Total Feet 845 Flush Tool? NO

Rec. 4079 Feet of GAS IN PIPE
Rec. 300 Feet of GASSY OIL CUT MUD 40%GAS/5%OIL/55%MUD
Rec. 545 Feet of OIL SPECKED WATER 1% OIL 99% WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.98 @ 96 °F Chlorides 55000 ppm Recovery Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud 2251.0 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 189.2 PSI @ (depth) 4942 w / Clock No. 25828

(C) First Final Flow Pressure 248.9 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1585.7 PSI @ (depth) 4988 w / Clock No. 26199

(E) Second Initial Flow Pressure 215.5 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 385.6 PSI @ (depth) _____ w / Clock No. _____

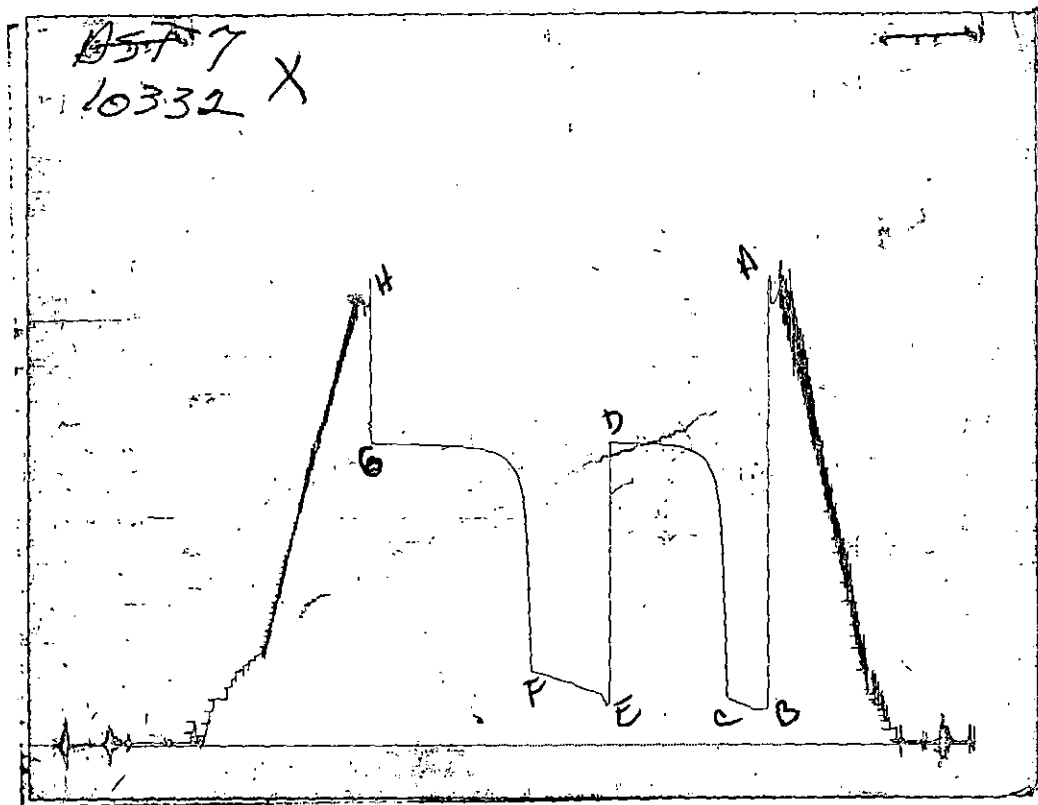
(G) Final Shut-in Pressure 1578.5 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2247.0 PSI Initial Shut-in 90 Final Shut-in 120

Our Representative GARY SPEER

AUG 29 1994

CHART PAGE



This is an actual photograph of recorder chart 10332

AUG 29 1994

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2298	2251
(B) FIRST INITIAL FLOW PRESSURE	202	189.2
(C) FIRST FINAL FLOW PRESSURE	253	248.9
(D) INITIAL CLOSED-IN PRESSURE	1589	1585.7
(E) SECOND INITIAL FLOW PRESSURE	212	215.5
(F) SECOND FINAL FLOW PRESSURE	384	385.6
(G) FINAL CLOSED-IN PRESSURE	1600	1578.5
(H) FINAL HYDROSTATIC MUD	2298	2247

DOUGLAS 1-11
INITIAL

DST #7
SHUTIN

30 INITIAL FLOW TIME SLOPE 79975.76 PSI/CYCLE
P* 1610.72 PSI

	TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
	6	1315.5	0.778	1315.5	6
	12	1452.7	0.544	137.2	4
	18	1507.2	0.426	54.5	3
	24	1535.7	0.352	28.5	2
	30	1554.1	0.301	18.4	2
	36	1565.2	0.263	11.1	2
	42	1569.3	0.234	4.1	2
	48	1574.4	0.211	5.1	2
	54	1574.4	0.192	0.0	2
	60	1575.5	0.176	1.1	2
X	66	1577.5	0.163	2.0	1
	72	1579.5	0.151	2.0	1
	78	1582.6	0.141	3.1	1
	84	1584.6	0.133	2.0	1
X	90	1585.7	0.125	1.1	1

AUG 29 1984

DOUGLAS 1-11

FINAL

DST #7

SHUTIN

90 TOTAL FLOW TIME

SLOPE

20998.61

PSI/CYCLE

P*

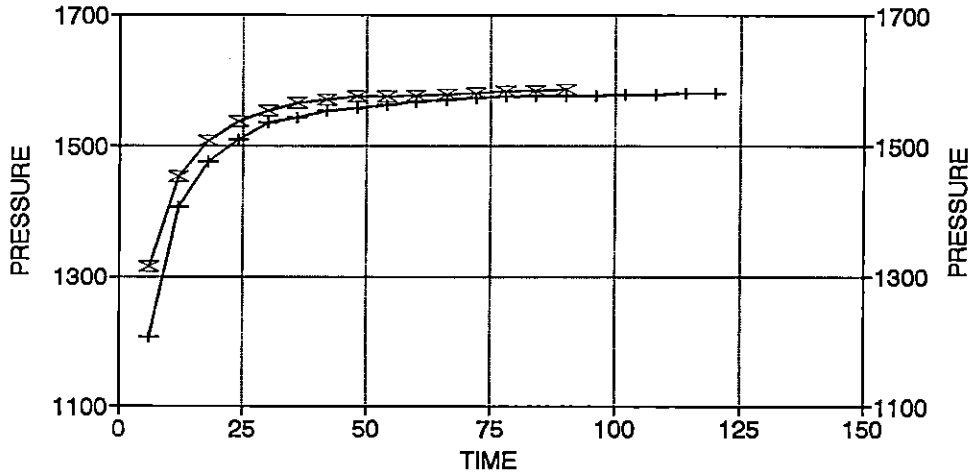
1585.14

PSI

TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
6	1206.6	1.204	1206.6	16
12	1407.2	0.929	200.6	9
18	1474.9	0.778	67.7	6
24	1508.2	0.677	33.3	5
30	1534.6	0.602	26.4	4
36	1542.8	0.544	8.2	4
42	1554.1	0.497	11.3	3
48	1557.1	0.459	3.0	3
54	1561.2	0.426	4.1	3
60	1566.3	0.398	5.1	3
66	1569.3	0.374	3.0	2
72	1572.4	0.352	3.1	2
78	1574.4	0.333	2.0	2
X 84	1576.5	0.316	2.1	2
90	1576.5	0.301	0.0	2
96	1576.5	0.287	0.0	2
102	1577.5	0.275	1.0	2
108	1577.5	0.263	0.0	2
114	1578.5	0.253	1.0	2
X 120	1578.5	0.243	0.0	2

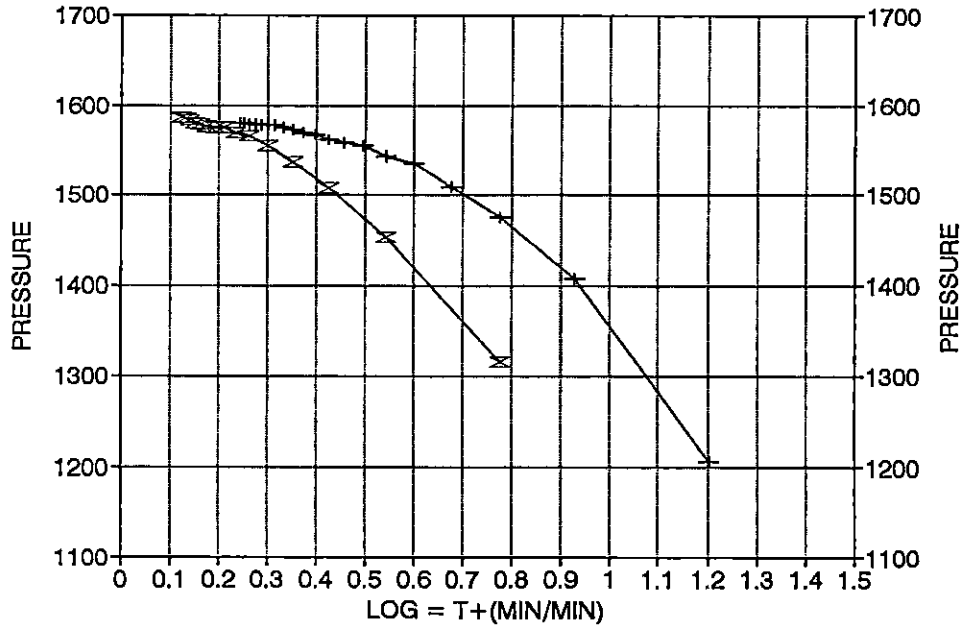
AUG 29 1994

DOUGLAS 1-11 DST #7 DELTA T DELTA P



x INITIAL
+ FINAL

HORNER PLOT



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AUG 29 1994

CONSERVATION DIVISION
WICHITA, KANSAS

INITIAL FLOW

RECORDER 10332

DST # 7

TIME(MIN) PRESSURE <>PRESSURE

0	189.2	189.2
3	189.2	0.0
6	195.3	6.1
9	199.3	4.0
12	207.4	8.1
15	215.5	8.1
18	223.6	8.1
21	231.7	8.1
24	241.9	10.2
27	248.9	7.0

AUG 29 1994

FINAL FLOW

RECORDER 10332

DST # 7

TIME(MIN) PRESSURE <> PRESSURE

0	215.5	215.5
3	240.8	25.3
6	267.2	26.4
9	273.2	6.0
12	279.3	6.1
15	284.4	5.1
18	290.4	6.0
21	298.5	8.1
24	308.7	10.2
27	316.7	8.0
30	323.8	7.1
33	327.9	4.1
36	334.1	6.2
39	340.1	6.0
42	349.1	9.0
45	353.2	4.1
48	362.3	9.1
51	368.4	6.1
54	374.4	6.0
57	381.5	7.1
60	385.6	4.1

AUG 29 1994

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number:	940374	Analyzed:	08/01/94
Sample From:	Douglas DST 7	Pressure:	
Producer:	Murfin Drilling	Temperature:	
Date:		Location:	11-32-32
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	Marmaton

	Mole %	GPM
Helium	He: 0.311	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.057	0.000
Carbon Dioxide	CO2: 0.077	0.000
Methane	C1: 75.747	0.000
Ethane	C2: 6.131	1.640
Propane	C3: 3.907	1.077
Iso Butane	iC4: 0.523	0.171
Normal Butane	nC4: 1.192	0.376
Iso Pentane	iC5: 0.316	0.116
Normal Pentane	nC5: 0.314	0.114
Hexanes Plus	C6+: 0.425	0.185

TOTAL: 100.000 3.678
 ✓ Z Fact: 0.9973
 ✓ SP.GR.: 0.7169
 BTU (SAT): 1061.3 @ 14.73 psia
 BTU (DRY): 1080.1 @ 14.73 psia
 OCTANE RATING: 110.7

COMMENTS:

AUG 29 1994

GAS VOLUME REPORT

MURFIN DRILLING CO INC/CANYON ENERGY

DOUGLAS 1-11

DST # 7

MIN	INCHES OF WTR	ORIFICE	MCF/D	MIN	INCHES OF WTR	ORIFICE	MCF/D
10	5.5	0.5	81.8	10	22	0.5	189
20	11	0.5	121	20	22	0.5	189
30	12	0.5	129	30	22	0.5	189
				40	22	0.5	189
				60	22	0.5	189

AUG 29 1994

Remarks:

FLUID SAMPLER DATA

Ticket No.: 7199 Date: 7/31/94
Company: MURFIN DRILLING CO INC/CANYON ENERGY
Lease: DOUGLAS 1-11 Test No.: 7
County: SEWARD Sec.: 11 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas 13.22
Oil
Mud
Water
Other
Pressure 1500
TOTAL ALL GAS

SAMPLER ANALYSIS

Resistivity ohms@ F
Chlorides ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 6000
Resistivity 0.75 ohms@ 90 F
Viscosity 54
Mud Wt. 9.1
Filtrate 10.4
Other LCM TRA

AUG 29 1994

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity 0.1 ohms@ 96 F
Chlorides 50000 ppm

BOTTOM

Resistivity 0.98 ohms@ 96 F
Chlorides 55000 ppm

RECEIVED
STATE CORPORATION COMMISSION
AUG 29 1994
CONSERVATION DIVISION
WICHITA, KANSAS

Test Ticket

No 7199

Well Name & No. Douglas 1-11 Test No. 7 Date 7-31-94
 Company Murfin Drilg/canyon Zone Tested Marmaton
 Address 250N Water Suite 300 Wichita' Elevation 2823 (GL)
 Co. Rep./Geo. Paul Godowic Cont. _____ Est. Ft. of Pay 10
 Location: Sec. 11 Twp. 32 Rge. 32 Co. Seward State Kan
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4940 - 4994 Drill Pipe Size 4 1/2 x H
 Anchor Length 54' Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4930 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4940 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4994 Drill Collar — 2.25 Ft. Run 575
 Mud Wt. 9.1 lb/gal. Viscosity 54 Filtrate 10.4
 Tool Open @ 6:05 AM Initial Blow Strong Blow, bottom of bucket in 1/2 min.
G.T.S. in 4 min.
 Final Blow GTS @ open

AUG 29 1994

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>845</u>	<u>4079</u>	<u>NO</u>
Rec. <u>300</u> Feet Of <u>400 m</u>	<u>40% gas 5 % oil</u>	<u>% water 55 % mud</u>
Rec. _____ Feet Of _____	<u>% gas _____ % oil _____</u>	<u>% water _____ % mud _____</u>
Rec. <u>545</u> Feet Of <u>OCW</u>	<u>% gas 1 % oil</u>	<u>99 % water _____ % mud _____</u>
Rec. _____ Feet Of _____	<u>% gas _____ % oil _____</u>	<u>% water _____ % mud _____</u>
Rec. _____ Feet Of _____	<u>% gas _____ % oil _____</u>	<u>% water _____ % mud _____</u>

BHT 121 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .98 @ 96 °F Chlorides 55,000 ppm Recovery Chlorides 6,000 ppm System
 (A) Initial Hydrostatic Mud 2298 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 202 PSI @ (depth) 4942 w/Clock No. 25828
 (C) First Final Flow Pressure 253 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-In Pressure 1589 PSI @ (depth) 4988 w/Clock No. 26199
 (E) Second Initial Flow Pressure 212 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 384 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1100 PSI Initial Opening 30 Test ✓ 600
 (H) Final Hydrostatic Mud 2298 PSI Initial Shut-in 90 Jars ✓ 200

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Approved By Paul F Godowic
 Our Representative Gary Speer

Final Flow 60 Safety Joint ✓ 50
 Final Shut-in 120 Straddle ✓
 Circ. Sub ✓ NC
 Sampler ✓ 200
 Extra Packer _____
 Other wal 50
 TOTAL PRICE \$ 1200

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7199 Date 7-31-94 AUG 29 1994
Company Name Martin Drlg / Canyon
Lease Douglas 1-11 Test No. 7
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas 13.22 cu. ft. ML
Oil _____ ML
Mud _____ ML
Water _____ ML
Other _____ ML
Pressure 1500 PSI
Total All Gas ML

PIT MUD ANALYSIS

Chlorides 6,000 ppm.
Resistivity .75 ohms @ 90 F
Viscosity 54
Mud Weight 9.1
Filtrate 10.4
Other LCM Trace

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity .1 ohms @ 96 F
Chlorides 50,000 ppm.
BOTTOM
Resistivity .98 ohms @ 96 F
Chlorides 55,000 ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DOUGLAS 1-11 Test No. 8 Date 8/2/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone ATOKA
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay 5
Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 5485-5512 Drill Pipe Size 4.5" XH
Anchor Length 27 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5475 Drill Collar - 2.25 Ft. Run 575
Bottom Packer Depth 5485 Mud Wt. _____ 9.0 lb/Gal.
Total Depth 5512 Viscosity 50 Filtrate 9.7

Tool Open @ 6:40 P.M. Initial Blow WEAK SURFACE BLOW BUILT TO 12" IN 30 MIN

Final Blow STRONG BLOW FROM SURFACE TO BOTTOM OF BUCKET IN 25 MIN

Recovery - Total Feet 30 Flush Tool? NO

AUG 29 1994

Rec. 1160 Feet of GAS IN PIPE
Rec. 30 Feet of GAS OIL WATER CUT MUD 10%GAS/5%OIL/5%WATER/80%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.3 @ 76 °F Chlorides 21000 ppm Recovery Chlorides 2800 ppm System

(A) Initial Hydrostatic Mud 2684.9 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 45.5 PSI @ (depth) 5487 w / Clock No. 25828

(C) First Final Flow Pressure 45.5 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 495.9 PSI @ (depth) 5506 w / Clock No. 26199

(E) Second Initial Flow Pressure 55.6 PSI AK1 Recorder No. _____ Range _____

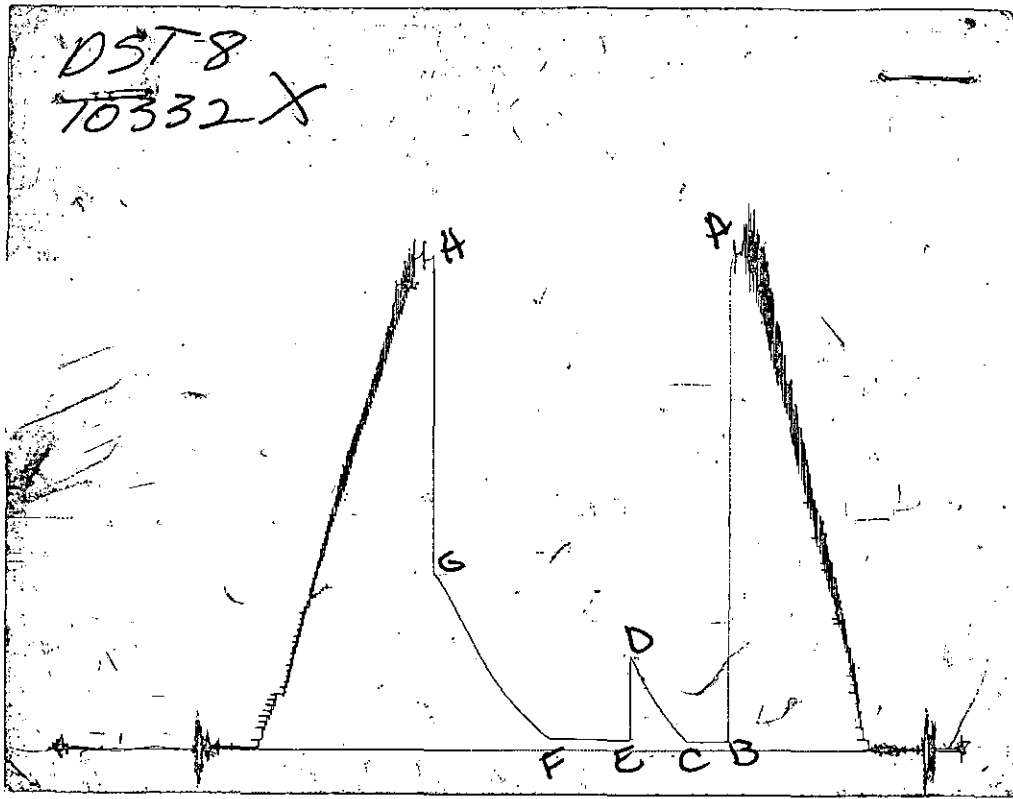
(F) Second Final Flow Pressure 55.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 935.9 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2602.6 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative GARY SPEER

CHART PAGE



AUG 29 1994

This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2609	2684.9
(B) FIRST INITIAL FLOW PRESSURE	60	45.5
(C) FIRST FINAL FLOW PRESSURE	60	45.5
(D) INITIAL CLOSED-IN PRESSURE	506	495.9
(E) SECOND INITIAL FLOW PRESSURE	60	55.6
(F) SECOND FINAL FLOW PRESSURE	60	55.6
(G) FINAL CLOSED-IN PRESSURE	912	935.9
(H) FINAL HYDROSTATIC MUD	2589	2602.6

FLUID SAMPLER DATA

Ticket No.: 7200 Date: 8/2/94
Company: MURFIN DRILLING CO INC/CANYON ENERGY
Lease: DOUGLAS 1-11 Test No.: 8
County: SEWARD Sec.: 11 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas .6 CU FT
oil SPOT
Mud 3500
Water 300
Other
Pressure 675
TOTAL 38000

PIT MUD ANALYSIS

Chlorides 2800
Resistivity 1.5 ohms@ 95 F
Viscosity 50
Mud Wt. 9
Filtrate 9.7
Other LCM #2

AUG 29 1994

SAMPLER ANALYSIS

Resistivity 0.3 ohms@ 76 F
Chlorides 21000 ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity 0.3 ohms@ 76 F
Chlorides 21000 ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@
Chlorides ppm

RECEIVED STATE CORPORATION COMMISSION
AUG 29 1994
CONSERVATION DIVISION WICHITA, KANSAS

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 7200

Well Name & No. Douglas 1-11 Test No. 8 Date 8-2-94
 Company Martin Drilg/canyon Zone Tested Atoka
 Address 150 NW Water Suite 300 Wichita Elevation 2823 (GL)
 Co. Rep./Geo. Paul Godowic cont. Martin Drilg #22 Est. Ft. of Pay 5
 Location: Sec. 11 Twp. 32 Rge. 32 Co. Seward state Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 5485-5512 Drill Pipe Size 4 1/2 x H
 Anchor Length 27 Top Choke - 1" _____ Bottom Choke - 3/4" 406
 Top Packer Depth 5475 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" 28
 Bottom Packer Depth 5485 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Total Depth 5512 Drill Collar - 2.25 Ft. Run 575
 Mud Wt. 9.0+ lb/gal. Viscosity 50 Filtrate 9.7
 Tool Open @ 6:40 pm Initial Blow Weak surface blow built to 12" in 30 min

Final Blow Strong blow from surface to bottom of bucket in 25 min

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>30</u>	<u>1160</u>	<u>NO</u>
Rec. <u>30</u> Feet Of	90 WCM <u>10</u> % gas	<u>5</u> % oil
Rec. _____ Feet Of	% gas	% oil
Rec. _____ Feet Of	% gas	% oil
Rec. _____ Feet Of	% gas	% oil
Rec. _____ Feet Of	% gas	% oil

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 3 @ 76 °F Chlorides 2,100 ppm Recovery Chlorides 2,800 ppm System

- (A) Initial Hydrostatic Mud 2609 PSI AK1 Recorder No. 11086 Range 4350
- (B) First Initial Flow Pressure 60 PSI @ (depth) 5487 w/Clock No. 25828
- (C) First Final Flow Pressure 60 PSI AK1 Recorder No. 10332 Range 4050
- (D) Initial Shut-in Pressure 506 PSI @ (depth) 5506 w/Clock No. 26199
- (E) Second Initial Flow Pressure 60 PSI AK1 Recorder No. 8 Range _____
- (F) Second Final Flow Pressure 60 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-in Pressure 912 PSI Initial Opening 30 Test 700
- (H) Final Hydrostatic Mud 2589 PSI Initial Shut-in 45 Jars 200

Final Flow 60 Safety Joint 50
 Final Shut-in 90 Straddle _____
 Circ. Sub NC
 Sampler 200

Approved By Paul Godowic
 Our Representative Gary Speer

Printcraft Printers - Hays, KS
 TOTAL PRICE \$ 1150

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TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

AUG 29 1994

Ticket No. 7200 Date 8-2-94
Company Name Murfin Drlg / Canyon
Lease Douglas 1-11 Test No. 8
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas 6 cu. ft. ML
Oil Spot ML
Mud 3,500 ML
Water 300 ML
Other _____ ML
Pressure 675 PSI
Total 3,800 ML

Chlorides 2,800 ppm.
Resistivity 1.5 ohms @ 95 F
Viscosity 50
Mud Weight 9.0+
Filtrate 9.7
Other _____
LCM #2

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity 3 ohms @ 76 F
Chlorides 21,000 ppm.
Gravity _____ corrected @ 60 F

TOP
Resistivity .3 ohms @ 76 F
Chlorides 21,000 ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DOUGLAS 1-11 Test No. 9 Date 8/3/84
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone MORROW SAND
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay 9
Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 5530-5545 Drill Pipe Size 4.5" XH
Anchor Length 15 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5520 Drill Collar - 2.25 Ft. Run 575
Bottom Packer Depth 5530 Mud Wt. _____ 9.0 lb/Gal.
Total Depth 5545 Viscosity 70 Filtrate 9.8

Tool Open @ 4:52 P.M. Initial Blow INTIAL SURGE-NO BLOW

Final Blow NO BLOW

Recovery - Total Feet 35 Flush Tool? NO

Rec. 35 Feet of MUD CUT WATER 70%WATER/30%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.32 @ 72 °F Chlorides 21000 ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2756.0 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 23.2 PSI @ (depth) 5532 w / Clock No. 25828

(C) First Final Flow Pressure 35.4 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1177.4 PSI @ (depth) 5539 w / Clock No. 26199

(E) Second Initial Flow Pressure 47.5 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 47.5 PSI @ (depth) _____ w / Clock No. _____

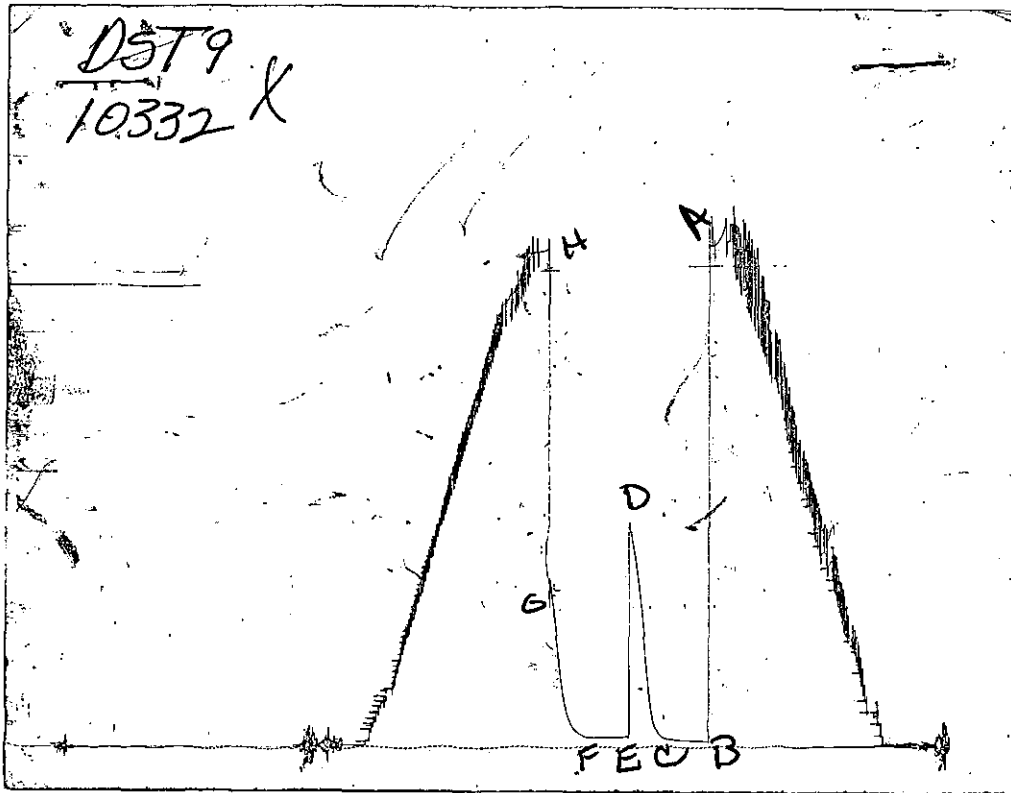
(G) Final Shut-in Pressure 879.0 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2654.4 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative GARY SPEER

AUG 29 1984

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
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AUG 29 1994

(A) INITIAL HYDROSTATIC MUD	2640	2756
(B) FIRST INITIAL FLOW PRESSURE	30	23.2
(C) FIRST FINAL FLOW PRESSURE	40	35.4
(D) INITIAL CLOSED-IN PRESSURE	1195	1177.4
(E) SECOND INITIAL FLOW PRESSURE	50	47.5
(F) SECOND FINAL FLOW PRESSURE	50	47.5
(G) FINAL CLOSED-IN PRESSURE	861	879
(H) FINAL HYDROSTATIC MUD	2609	2654.4

FLUID SAMPLER DATA

Ticket No.: 7226 Date: 8/3/94
 Company: MURFIN DRILLING CO INC/CANYON ENERGY
 Lease: DOUGLAS 1-11 Test No.: 9
 County: SEWARD Sec.: 11 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas
 Oil
 Mud 1200
 Water 2800
 Other
 Pressure 100
 TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3500
 Resistivity 1.25 ohms@ 90 F
 Viscosity 70
 Mud Wt. 9
 Filtrate 9.8
 Other LCM TRA

SAMPLER ANALYSIS

Resistivity 0.32 ohms@ 72 F
 Chlorides 21000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity 0.32 ohms@ 72 F
 Chlorides 21000 ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

AUG 29 1994

Test Ticket

No 7226

Well Name & No. Douglas 1-11 Test No. 9 Date 8-3-94
 Company Martin Drlg/Canyon Zone Tested Morrow Sand
 Address 2500 Water Suite 300 Wichita Elevation 2823 (GL)
 Co. Rep./Geo. Paul Godowic Cont. Martin Est. Ft. of Pay 9
 Location: Sec. 11 Twp. 32 Rge. 32 Co. Seward State Kn
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 5530-5545 Drill Pipe Size 4 1/2 x H
 Anchor Length 15 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 5520 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5530 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5545 Drill Collar — 2.25 Ft. Run 575
 Mud Wt. 9.0 lb/gal. Viscosity 70 Filtrate 9.8
 Tool Open @ 4:52 pm Initial Blow Initial surge - No blow
 Final Blow No blow

AUG 29 1994

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>35</u>	_____	<u>NO</u>
Rec. <u>35</u> Feet Of	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of <u>MCW</u>	%gas _____ %oil <u>70</u> %water <u>30</u> %mud _____	
Rec. _____ Feet Of	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of	%gas _____ %oil _____ %water _____ %mud _____	

BHT 130 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 32 @ 72 °F Chlorides 21,000 ppm Recovery Chlorides 3,500 ppm System
 (A) Initial Hydrostatic Mud 2640 PSI AK1 Recorder No. 11086 Range 4350
 (B) First Initial Flow Pressure 30 PSI @ (depth) 5532 w/Clock No. 25828
 (C) First Final Flow Pressure 40 PSI AK1 Recorder No. 10332 Range 4050
 (D) Initial Shut-in Pressure 1195 PSI @ (depth) 5539 w/Clock No. 216199
 (E) Second Initial Flow Pressure 50 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 50 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 861 PSI Initial Opening 30 Test 700
 (H) Final Hydrostatic Mud 2609 PSI Initial Shut-in 30 Jars 200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Paul F Godowic
 Our Representative Gary Speer
 Final Flow 30 Safety Joint 50
 Final Shut-in 30 Straddle _____
 Circ. Sub NC
 Sampler 200
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 1150

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7226 Date 8-3-94
Company Name Murfin Dr/g/canyon
Lease Douglas 7-11 Test No. 9
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 2200 ML
Water 2800 ML
Other _____ ML
Pressure 100 PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3,500 ppm.
Resistivity 1.25 ohms @ 90 F
Viscosity 70
Mud Weight 9.0
Filtrate 9.8
Other LCM - Trace

AUG 29 1994

SAMPLER ANALYSIS

Resistivity .32 ohms @ 72 F
Chlorides 21,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .32 ohms @ 72 F
Chlorides 21,000 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

DOUGLAS 1-11
FINAL

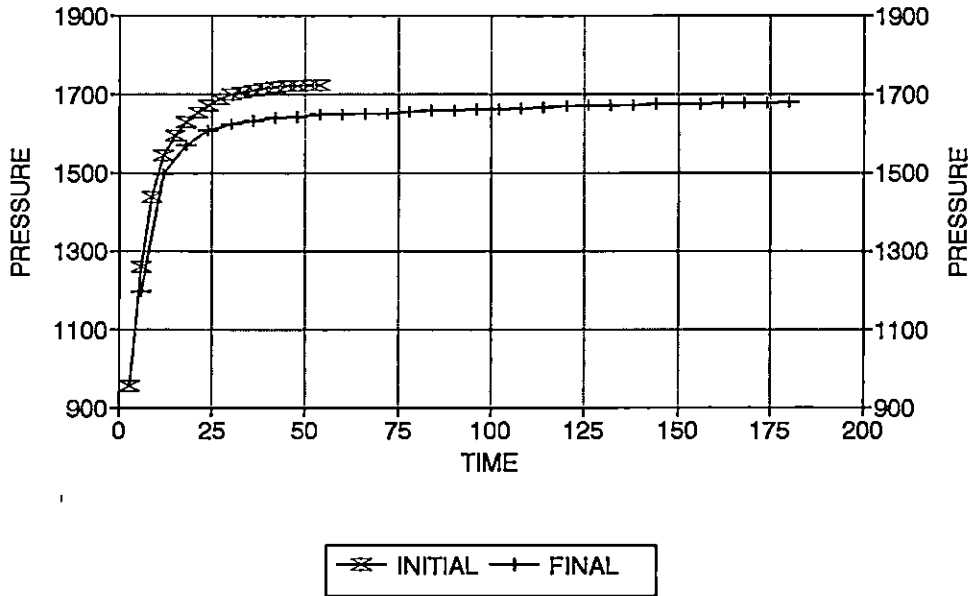
DST #7
SHUTIN

90 TOTAL FLOW TIME SLOPE 91020.96 PSI/CYCLE
P* 1706.38 PSI

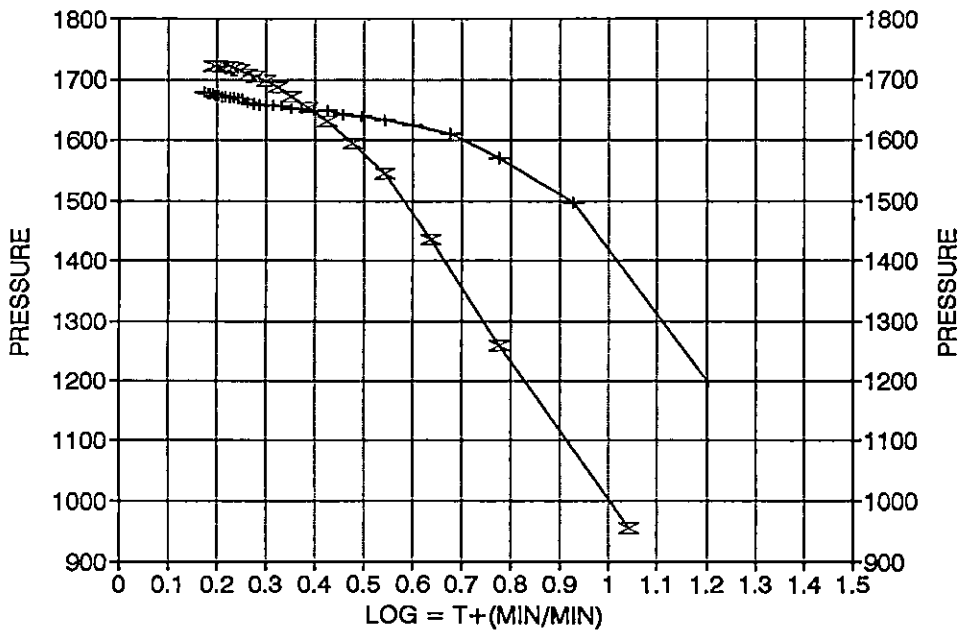
TIME(MIN)	Pws(psi)	Log Horn T	<> PRESSURE	Horn T
6	1197.5	1.204	1197.5	16
12	1497.1	0.929	299.6	9
18	1571.4	0.778	74.3	6
24	1609.1	0.677	37.7	5
30	1624.4	0.602	15.3	4
36	1632.6	0.544	8.2	4
42	1639.7	0.497	7.1	3
48	1641.8	0.459	2.1	3
54	1648.9	0.426	7.1	3
60	1648.9	0.398	0.0	3
66	1652.0	0.374	3.1	2
72	1652.0	0.352	0.0	2
78	1657.1	0.333	5.1	2
X 84	1658.1	0.316	1.0	2
90	1659.1	0.301	1.0	2
96	1660.1	0.287	1.0	2
102	1661.2	0.275	1.1	2
108	1663.2	0.263	2.0	2
114	1667.3	0.253	4.1	2
120	1669.3	0.243	2.0	2
126	1671.4	0.234	2.1	2
132	1671.4	0.226	0.0	2
138	1672.4	0.218	1.0	2
144	1673.4	0.211	1.0	2
150	1674.4	0.204	1.0	2
156	1675.5	0.198	1.1	2
162	1677.5	0.192	2.0	2
168	1677.5	0.186	0.0	2
174	1677.5	0.181	0.0	2
X 180	1679.5	0.176	2.0	2

AUG 29 1994

DOUGLAS 1-11 DST #10 DELTA T DELTA P



HORNER PLOT



AUG 29 1994

INITIAL FLOW

RECORDER 10332

DST # 10

TIME(MIN)	PRESSURE	<>PRESSURE
0	22.2	22.2
3	25.3	3.1
6	26.3	1.0
9	28.3	2.0
12	29.3	1.0
15	30.3	1.0
18	30.3	0.0
21	30.3	0.0
24	30.3	0.0
27	30.3	0.0
30	30.3	0.0

AUG 29 1994

RECEIVED
STATE CORPORATION COMMISSION

AUG 29 1994

66
WESTERN CORPORATION

FINAL FLOW

RECORDER 10332

DST # 10

TIME(MIN) PRESSURE <> PRESSURE

0	19.2	19.2
6	20.2	1.0
12	20.2	0.0
18	20.2	0.0
24	20.2	0.0
30	20.2	0.0
36	20.2	0.0
42	20.2	0.0
48	20.2	0.0
54	21.2	1.0
60	21.2	0.0
66	21.2	0.0
72	21.2	0.0
78	21.2	0.0
84	21.2	0.0
90	21.2	0.0

AUG 29 1994

GAS VOLUME REPORT

MURFIN DRILLING CO INC/CANYON ENERGY

DOUGLAS 1-11

DST # 10

MIN	INCHES OF WTR	ORIFICE	MCF/D	MIN	INCHES OF WTR	ORIFICE	MCF/D
2ND OPEN							
40	26	0.25	8.56				
50	30	0.25	9.2				
60	9	0.375	10.7				
70	9	0.375	10.7				
80	9	0.375	10.7				
90	10	0.375	11.3				

AUG 29 1994

Remarks:

FLUID SAMPLER DATA

Ticket No.: 7227 Date: 8/4/94
Company: MURFIN DRILLING CO INC/CANYON ENERGY
Lease: DOUGLAS 1-11 Test No.: 10
County: SEWARD Sec.: 11 Twp.: 32S Rng.: 32W

SAMPLER RECOVERY

Gas 13.3 CU F
Oil
Mud 100
Water
Other
Pressure 1600
TOTAL 100

PIT MUD ANALYSIS

Chlorides 3500
Resistivity 1.25 ohms@ 90 F
Viscosity 59
Mud Wt. 9
Filtrate 9.8
Other LCM #2

Aug 9 8 1994

SAMPLER ANALYSIS

Resistivity 1.5 ohms@ 75 F
Chlorides 3500 ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity 1.5 ohms@ 75 F
Chlorides 3500 ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L.L.C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, L.L.C.
728 North Roosevelt
Liberal, Kansas 67901
Phone: 316-324-5389
Fax: 316-626-7108

Lab Number:	940396	Analyzed:	08/08/94
Sample From:	Douglas 1-11 DST 10	Pressure:	
Producer:	Murfin Drilling	Temperature:	
Date:		Location:	11-32-32
Time:		County:	Seward
Sampler:		State:	Kansas
Source:		Formation:	Morrow

	Mole %	GPM
Helium	He:	0.000
Oxygen	O2:	0.000
Nitrogen	N2:	7.771
Carbon Dioxide	CO2:	0.000
Methane	C1:	71.929
Ethane	C2:	14.930
Propane	C3:	3.183
Iso Butane	iC4:	0.463
Normal Butane	nC4:	0.886
Iso Pentane	iC5:	0.185
Normal Pentane	nC5:	0.234
Hexanes Plus	C6+:	0.419

TOTAL: 100.000 5.636
Z Fact: 0.9970
SP.GR.: 0.7303
BTU (SAT): 1139.0 @ 14.73 psia
BTU (DRY): 1159.2 @ 14.73 psia
OCTANE RATING: 113.6

AUG 29 1994

AUG 29 1994

COMMENTS: Sample entered under vacuum
Insufficient pressure for Helium analysis

Test Ticket

No. 7227

Well Name & No. <u>Douglas 1-11</u>	Test No. <u>16</u>	Date <u>8-4-94</u>
Company <u>Murfin Drly/Canyon</u>	Zone Tested <u>Motrow</u>	
Address <u>250 NW Water Suite Wichita</u>	Elevation <u>2823(GL)</u>	
Co. Rep./Geo. <u>Paul Godowic</u>	cont. <u>Murfin Drly #22</u>	Est. Ft. of Pay _____
Location: Sec. <u>11</u>	Twp. <u>32</u>	Rge. <u>32</u>
Co. _____		State <u>Kan</u>
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____
Turnkey _____	Yes _____ No _____	Evaluation _____

Interval Tested <u>5612-5621</u>	Drill Pipe Size <u>4 1/2 KH</u>
Anchor Length <u>9</u>	Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth <u>5610</u>	Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth <u>5612</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth <u>5621</u>	Drill Collar — 2.25 Ft. Run <u>575</u>
Mud Wt. <u>9.0</u> lb/gal.	Viscosity <u>59</u> Filtrate <u>9.8</u>
Tool Open @ <u>1:56pm</u>	Initial Blow <u>Surface to bottom of bucket</u>
<u>in 1 min.</u>	Final Blow <u>Strong blow - bottom of bucket @ open</u>
<u>GTS in 20 min.</u>	

Recovery — Total Feet <u>20</u>	Feet of Gas In Pipe <u>5592</u>	Flush Tool? <u>NO</u>
Rec. <u>20</u> Feet Of <u>GC M</u>	<u>5</u> %gas	%oil _____ %water _____ %mud <u>95</u>
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____ %water _____ %mud _____

BHT 127 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 1.5 @ 75 °F Chlorides 3,500 ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud <u>2630</u>	PSI	AK1 Recorder No. <u>11086</u>	Range <u>4350</u>
(B) First Initial Flow Pressure <u>30</u>	PSI	@ (depth) <u>5623</u>	w/Clock No. <u>25828</u>
(C) First Final Flow Pressure <u>30</u>	PSI	AK1 Recorder No. <u>10332</u>	Range <u>4050</u>
(D) Initial Shut-In Pressure <u>1722</u>	PSI	@ (depth) <u>5621</u>	w/Clock No. <u>26199</u>
(E) Second Initial Flow Pressure <u>25</u>	PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>25</u>	PSI	@ (depth) _____	w/Clock No. _____
(G) Final Shut-In Pressure <u>1071</u>	PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> 900
(H) Final Hydrostatic Mud <u>2630</u>	PSI	Initial Shut-In <u>60</u>	Jars <input checked="" type="checkbox"/> 200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Paul F Godowic

Our Representative Gary Speer

Final Flow 90 Safety Joint 50

Final Shut-In 180 Straddle _____

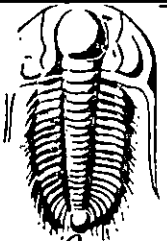
Circ. Sub NC

Sampler 200

Extra Packer _____

Other wal 50

TOTAL PRICE \$ 1200



RILOBITE TESTING

P.O. Box 362 • Hays, Kansas 67801 • (913) 625-4778

GAS VOLUME REPORT

Martin Drlg/Canyon
OPERATOR

Douglas 1-11
WELL NAME AND NO.

10
DST NO.

2nd open

Min.	Ins. of Water PSIG	Orifice Size	MCF/D	Min.	Ins. of Water PSIG	Orifice Size	MCF/D
40	26	1/4	8.56				
50	30	1/4	9.20				
60	9	3/8	10.7				
70	9	3/8	10.7				
80	9	3/8	10.7				
90	10	3/8	11.3				

AUG 29 1994

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

AUG 29 1994

FLUID SAMPLER DATA

Ticket No. 7227 Date 8-4-94
Company Name Martin Drlg / Canyon
Lease Douglas 1-1N Test No. 10
County Seward Sec. 11 Twp. 32 Rng. 32

SAMPLER RECOVERY

Gas 13.3 cu.ft. ML
Oil _____ ML
Mud 100 ML
Water _____ ML
Other _____ ML
Pressure 1600 PSI
Total 100 ML

PIT MUD ANALYSIS

Chlorides 3,500 ppm.
Resistivity 1.25 ohms @ 90 F
Viscosity 59
Mud Weight 9.0
Filtrate 9.8
Other LCM #2

SAMPLER ANALYSIS

Resistivity 1.5 ohms @ 75 F
Chlorides 3,500 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 1.5 ohms @ 75 F
Chlorides 3,500 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name DOUGLAS 1-11 Test No. 10 Date 8/4/94
Company MURFIN DRILLING CO INC/CANYON ENERGY Zone MORROW
Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2823 (GL)
Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN DRLG RIG #22 Est. Ft. of Pay _____
Location: Sec. 11 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested 5612-5621 Drill Pipe Size 4.5" XH
Anchor Length 9 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5610 Drill Collar - 2.25 Ft. Run 575
Bottom Packer Depth 5612 Mud Wt. _____ 9.0 lb/Gal.
Total Depth 5621 Viscosity 59 Filtrate 9.8

Tool Open @ 1:56 P.M. Initial Blow SURFACE TO BOTTOM OF BUCKET IN 1 MIN

Final Blow STRONG BLOW-BOTTOM OF BUCKET @ OPEN GAS TO SURFACE IN 20 MIN

Recovery - Total Feet 20 Flush Tool? NO

Rec. 5592 Feet of GAS IN PIPE
Rec. 20 Feet of GAS CUT MUD 5%GAS/95%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 127 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 1.5 @ 75 °F Chlorides 3500 ppm Recovery Chlorides 3500 ppm System

(A) Initial Hydrostatic Mud 2791.6 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 22.2 PSI @ (depth) 5623 w / Clock No. 25828

(C) First Final Flow Pressure 30.3 PSI AK1 Recorder No. 10332 Range 4050

(D) Initial Shut-in Pressure 1722.4 PSI @ (depth) 5621 w / Clock No. 26199

(E) Second Initial Flow Pressure 19.2 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 21.2 PSI @ (depth) _____ w / Clock No. _____

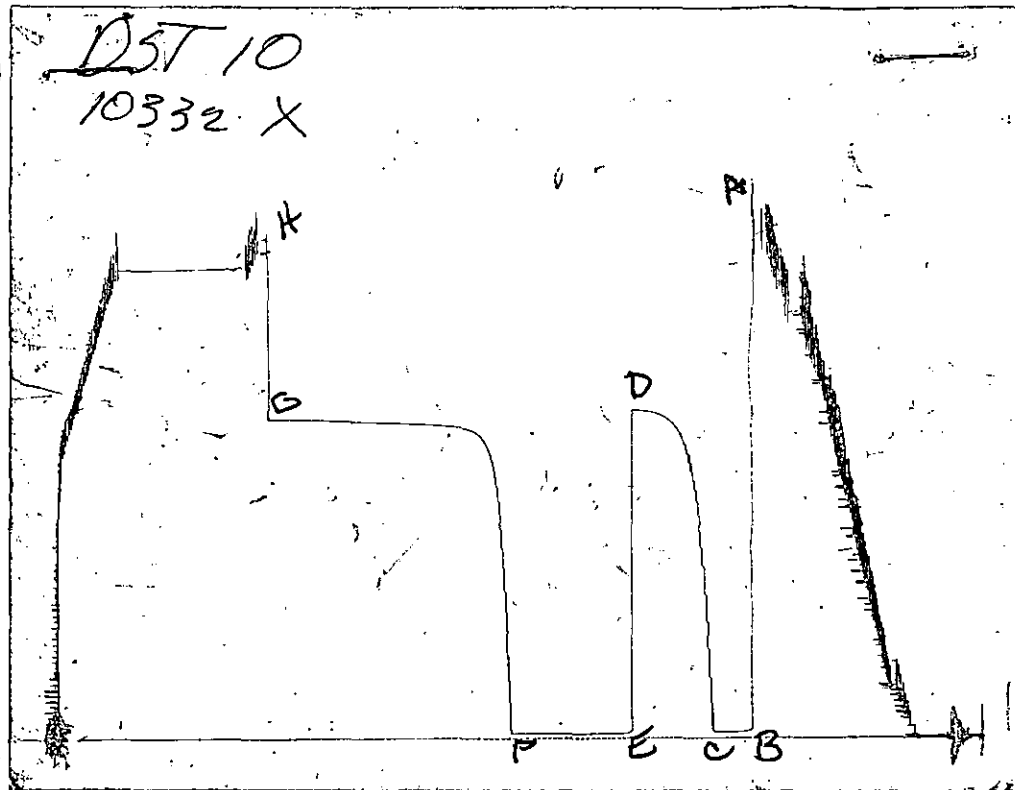
(G) Final Shut-in Pressure 1679.5 PSI Initial Opening 30 Final Flow 90

(H) Final Hydrostatic Mud 2652.4 PSI Initial Shut-in 60 Final Shut-in 180

Our Representative GARY SPEER

AUG 29 1994

CHART PAGE



This is an actual photograph of recorder chart 10332

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2630	2791.6
(B) FIRST INITIAL FLOW PRESSURE	30	22.2
(C) FIRST FINAL FLOW PRESSURE	30	30.3
(D) INITIAL CLOSED-IN PRESSURE	1722	1722.4
(E) SECOND INITIAL FLOW PRESSURE	25	19.2
(F) SECOND FINAL FLOW PRESSURE	25	21.2
(G) FINAL CLOSED-IN PRESSURE	1671	1679.5
(H) FINAL HYDROSTATIC MUD	2630	2652.4

COMPUTER GAS EVALUATION BY TRILOBITE TESTING, L.L.C.
MURFIN DRILLING CO INC/CANYON ENERGY

DOUGLAS 1-11 DST 10
11 32S 32W SEWARD KS

ELEVATION:	2823 KB	EST. PAY:	10 FT.
DATUM:	-2799	ZONE TESTED:	MORROW
TEST INTERVAL:	5612-5621	TIME INTERVALS:	30-60-90-120
RECORDER DEPTH:	5621	VISCOSITY:	0.01564 CP
BOTTOM HOLE TEMP:	127	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.997	GAS GRAVITY:	0.7303

TEMPERATURE RANKINE:	587.00	&
TRANSMISSIBILITY:	118.97	Kh/%
THEORITICAL FLOW CAPICITY:	1.86	Kh
AVERAGE EFFECTIVE PERMEABILITY:	0.19	K(md.)
RADIUS OF INVESTIGATION:	4.73	FT.
DAMAGE RATIO:	8.41	
ABSOLUTE OPEN FLOW(MAX)	11.30	MCFD
ABSOLUTE OPEN FLOW(MIN)	1.30	MCFD
THEORITICAL OPEN FLOW(MAX)	95.04	MCFD
THEORITICAL OPEN FLOW(MIN)	95.03	MCFD
POTENTIOMETRIC SURFACE	988.46	(FT.)

RELEASED
OCT 26 1995
FROM CONFIDENTIAL

INITIAL SHUT-IN VALUES:	
SLOPE	44285.29
THEORETICAL STATIC PRESSURE	1735.21
FINAL SHUT-IN VALUES:	
SLOPE	91020.96
THEORETICAL STATIC PRESSURE	1706.38

AUG 29 1994

DRAWDOWN FACTOR: 1.66 (%)

30 INITIAL FLOW TIME

SLOPE

44285.29 PSI/CYCLE

P*

1735.21 PSI

ORIGINAL

TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T
3	955.2	1.041	955.2	11
6	1259.0	0.778	303.8	6
9	1436.5	0.637	177.5	4
12	1544.8	0.544	108.3	4
15	1593.8	0.477	49.0	3
18	1630.6	0.426	36.8	3
21	1654.0	0.385	23.4	2
24	1672.4	0.352	18.4	2
27	1687.7	0.325	15.3	2
30	1698.9	0.301	11.2	2
33	1705.0	0.281	6.1	2
36	1709.1	0.263	4.1	2
39	1715.3	0.248	6.2	2
42	1718.3	0.234	3.0	2
X 45	1720.4	0.222	2.1	2
48	1720.4	0.211	0.0	2
51	1722.4	0.201	2.0	2
X 54	1722.4	0.192	0.0	2

CONFIDENTIAL

RELEASED

AUG 20 1994

OCT 26 1995

FROM CONFIDENTIAL

AUG 29 1994

AUG 28 1994

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 316-888-5926, Medicine Lodge, KS
 Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31 Russell, Kansas 67665 6776

CONFIDENTIAL

New

Date	7-20-94	Sec.	11	Twp.	32	Range	32	Called Out	10 ⁰⁰ AM	On Location	5 ⁰⁰ AM	Job Start	9:30 AM	Finish	12:00 PM
Lease	Douglas	Well No.	1-11	Location	Plans also get 114244, S.W. 1/4					County	Sumner	State	KS		
Contractor	Murfin Drilling Rig # 22														
Type Job	Surface Pipe Job														
Hole Size	12 1/2	T.D.	1727 H												
Csg. New BR	8 3/4	Depth	1739 H												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	NO. 88 H	Shoe Joint	43.75 H												
Press Max.		Minimum													
Mess Line	1695 H	Displace	107.9 bbl												
Perf.															
EQUIPMENT															
No.	Cement	Miller													
Pumpk 120	Helper	Dunn													
No.	Cement														
Pumpk	Helper														
	Driver	Tim													
Bulkk 222															
Bulkk 240	Driver	Bur													
DEPTH of Job 1739 H															
Reference:	Pump Truck charge														
	Mileage charge														
1	1 1/2 Rubber Plug														
	Sub Total														
	Tax														
	Total														
Remarks:	Mix cement & displace it down Cement did circulate around float did hole Allied Cementing Co. Inc.														

Owner
 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.

Charge To Murfin Drilling
Street AUG 20

City **State** CONFIDENTIAL

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
[Signature]
CEMENT

Amount Ordered 450 1/2 67 gal 37 cc
Consisting of 200 lb Comm 37 cc

Common
Por. Mix
Gel.
Chloride
Quickset RELEASED
 OCT 26 1995

Handling FROM CONFIDENTIAL

Mileage
Thank you
 Sub Total
 Total

Floating Equipment
 1-8 1/2 AFV ENSOIT
 1-8 1/2 Texas Pattern Muds Shoe
 1-8 1/2 Basket
 3-8 1/2 Containers } Baker

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 316-888-5928, Medicine Lodge, KS
Phone 913-798-3843, Ness City, KS

ALLIED CEMENTING CO., INC. 0007322

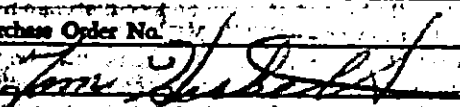
Home Office P. O. Box 31

Russell, Kansas 67665

new

Date	8-8-94	Sec.	11	Trp.	32	Range	32	Called Out	5:15 AM	On Location	9:40 AM	Job Start		Finish	2:00 PM
Lease	Douglas	Well No.	1-11	Location	E 3 + 160 Jct 65 1/2 N 1/2 W				County	Seward	State	Kan			

Contractor	Muffin Dets Co #22
Type Job	P.T.A.
Hole Size	7 7/8" I.D. 5800'
Cap.	Depth
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Cap	Shoe Joint
Press Max	Minimum
Meas Line	Displace
Perf.	

Owner	Same
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.	
Charge To	Muffin Dets Co. AUG 26
Street	
City	State
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
	
CEMENT	
Amount Ordered	295.6940 per 6% lat

EQUIPMENT

Inventory No.	Cement	
Pumptruck 191	Helper	
Pumptruck	Cement	
	Helper	
Bulkark 303	Driver	Malayne
Bulkark	Driver	

Consisting of	
Common	
Por. Mix	
Gel.	RELEASED
Chloride	
Quickset	OCT 2-6 1995
FROM CONFIDENTIAL	
Handling	1.00 per SK
Mileage	4.8 per SK mile

DEPTH of Job

References	Pumptruck	
	8 SK DH Plug	
	225 per mile	
	Sub Total	
	Tax	
	Total	

Sub Total	
Total	
Floating Equipment	

Remarks:

- 100 SKs @ 2750'
- 50 SKs @ 1700'
- 60 SKs @ 600'
- 50 SKs @ 500'
- 40 SKs @ 40'
- 15 SKs in R.H. , 10 SKs in M.H.

Thank You

AUG 22 1994