

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

ORIGINAL

API NO. 15- 175-21313-0000 **CONFIDENTIAL**
County Seward
NE-NE Sec. 9 Twp. 32S Rge. 32W E

Operator: License # 30606

4620 Feet from ~~S~~(circle one) Line of Section

Name: Murfin Drilling Co., Inc.

660 Feet from ~~E~~(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 Mobil-Isaac Well # 1-9

Purchaser: Ensign

Field Name Unknown

Operator Contact Person: Larry M. Jack

Producing Formation Wabaunsee

Phone () 267-3241

Elevation: Ground 2833 KB 2844

Contractor: Name: Murfin Drilling Co., Inc.

Total Depth 6020 PBDT 3465

License: 30606

Amount of Surface Pipe Set and Cemented at 1734 Feet

Wellsite Geologist: Paul Godowic

Multiple Stage Cementing Collar Used? Yes X No

Designate Type of Completion
 New Well Re-Entry Workover

If yes, show depth set _____ Feet

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

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cnt.

If Workover/Re-Entry: old well info as follows: NO

Drilling Fluid Management Plan ALT 1 J 2 10-15-93
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 4000 ppm Fluid volume 2500 bbls

Well Name: _____

Dehydrating method used evaporation

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

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

Operator Name RELEASED

5/17/93 5/30/93 7/9/93

Lease Name _____ License No. 1994

Spud Date Date Reached TD Completion Date

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____ **FROM CONFIDENTIAL**

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 Larry M. Jack

Title Larry M. Jack, Prod. Mgr. Date 9/15/93

Subscribed and sworn to before me this 15 day of September 19 93.

Notary Public Kerran Redington
Kerran Redington 2/6/94
Date Commission Expires _____

KERRAN REDINGTON
NOTARY PUBLIC
STATE OF KANSAS
My Appl. Exp. 2-6-94

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
DISTRIBUTION
 KCC SWD
 KGS Plug
RECEIVED
STATE CORPORATION COMMISSION
9-16-93
SEP 16 1993
(Specify)
CONSERVATION DIVISION
Wichita, Kansas

Operator Name Murfin Drilling Co., Inc. Lease Name Mobil-Isaac Well # 1-9
 Sec. 9 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.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No (Submit Copy.)
 List All E.Logs Run:
 See attached.

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 See attached

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#	1734	Lite/Common	650	3% cc
Production	7 7/8	4 1/2	10.5#	3718	50/50 Poz	325	10% salt, 3/4% Halad

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	3443-46	500 gal. MOD-202	3443-46

TUBING RECORD Size 2 3/8 Set At 3344 Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. _____ Producing Method Flowing Pumping Gas Lift Other (Explain)
 Shut in - waiting on pipeline

Estimated Production Per 24 Hours: Oil _____ Bbls. Gas _____ Mcf Water _____ Bbls. Gas-Oil Ratio _____ Gravity _____

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval as above.

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

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Gentlemen:

I have witnessed the drilling and examined samples on the Mobil-Isaac No. 1-9 from 2700' to a total depth of 6020' in 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 2700' to T.D.

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 Murfin Drilling Company, Inc. - Wessler No. 1-4 (2310' FNL & 990' FEL of section 4-T32S-R32W, Seward County, Kansas) a Morrow sand gas well about 3/4 of a mile north, are as follows:

Formation	Murfin No. 1-9 Mobil-Isaac	KOL	Murfin No. 1-4 Wessler
(Elevation-Datum)	2844 KB	SEP 15	2854 KB
Base of Stone Corral	1717 +1127	CONFIDENTIAL	1732 +1122
Wellington	2225 +619		2234 +620
Herington	2642 +202		2650 +204
Krider	2700 +144		2711 +143
Winfield	2750 +94		2761 +93
Council Grove	2962 -118	RELEASED	2972 -118
Wabaunsee	3360 -516		3372 -518
Topeka	3778 -934	OCT 12 1994	3790 -936
Base of Heebner Shale	4240 -1396		4250 -1396
Toronto	4250 -1406	FROM CONFIDENTIAL	4258 -1404
Lansing	4343 -1499		4354 -1500
Swope Zone	4834 -1990		4840 -1986
Marmaton	4967 -2123		4980 -2126
Cherokee Shale	5146 -2302		5142 -2288
Atoka Limestone	5319 -2475		5316 -2462
Morrow	5478 -2634		5474 -2620
Morrow Sand	5603 -2759		5571 -2717
Chester	5610 -2766		5584 -2730
Chester Sand Zone	5706 -2862		5710 -2856
Ste Genevieve	5764 -2920		5756 -2902
St. Louis	5866 -3022		5834 -2980
T.D. - E.S.	6017 -3173		5998 -3144
T.D. - Driller	6020 -3176		6000 -3146

Zones of interest are discussed below:

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CONSERVATION DIVISION
Wichita, Kansas

CONFIDENTIAL
Drill Stem Test Field Results

API# 15-175-21313

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DST No. 1, 3439-3449, Straddle test run at a depth of 3488', Wabaunsee Limestone, Ten foot interval, 30 minute initial flow period opened with a strong blow (off bottom of bucket in 30 seconds), gas to surface in six minutes, gauged as follows thru a 1 1/2" choke:

260 mcf/d in 10 minutes		
355	"	15 "
451	"	20 "
482	"	25 "
495	"	30 "

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

654 mcf/d in 10 minutes		
654	"	20 "
654	"	30 "
654	"	40 "
654	"	50 "
654	"	60 "

Gas would burn, 90 minute final shut in period, Recovered 180' of muddy water (20% mud & 80% water)

IHP 1630, 30"IFP 55-133, 60" ISIP 871, 60" FFP 166-166, 90" FSIP 882, FHP 1619, BHT 107°F

Sample Chamber recovery was 7.7 cu ft of gas at a pressure of 500 psi. No mud, oil or water present. Chamber capacity is 4000 cc.

Trilobite Testing Company, Satanta, Kansas, Robert "Ace" Collins, Engineer, May 21, 1993.

This was a good test mechanically.

DST No. 2, 4336-4360, Lansing Limestone, 24' of anchor, 30 minute initial flow period opened with a very weak blow slowly increasing (three inches in water at end), 45 minute initial shut in period, 60 minute final flow period had a very weak blow slowly increasing (two inches in water at end), 60 minute final shut in period, recovered 187' of muddy water with oil spots, (80% water & 20% mud), no gas present.

IHP 2095, 30"IFP 44-55, 45" ISIP 1211, 60" FFP 77-122, 60" FSIP 1178, FHP 2062, BHT 109°F, (FSIP was first reported as 1778).

Sample chamber recovery was 4000 cc of water at zero pressure. No gas, oil or mud present.

Sampler Rw was 0.564 @ 46°F

Trilobite Testing Company, Satanta, Kansas, Robert "Ace" Collins, Engineer, May 23 & 24, 1993.

This was a good test mechanically.

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DST No. 3, 4808-4854, Swope Zone, 46' of anchor, 30 minute initial flow period opened with a weak blow steadily increasing (off bottom of bucket in 17 minutes) no gas at surface, 60 minute initial shut in period, 60 minute final flow period opened with a weak blow slowly increasing (off bottom of bucket in 35 minutes) no gas at surface, 90 minute final shut in period, recovered 980' of fluid, all muddy water (60% water & 40% mud),

IHP 2363, 30" IFP 66-266, 60" ISIP 1475, 60" FFP 322-444, 90" FSIP 1475, FHP 2308, BHT 110°F

Sample chamber recovery was 4000 cc of water at a pressure of 300 psi. No gas, oil or mud present. Sample chamber capacity is 4000 cc. R_w on sampler was 0.485 ohms at 85°F with a calculated chlorides of 10,000 ppm. Pit chlorides was 6500 ppm.

Trilobite Testing Company, Satanta, Kansas, Robert "Ace" Collins, Engineer, May 25, 1993.

This was a good test mechanically.

DST No. 4, 5486-5616, Morrow Sand, 132' of anchor, 30 minute initial flow period had a very weak blow slowly increasing (2 1/2" in water at end), 60 minute initial shut in period, 60 minute final flow period opened with a very weak blow slowly increasing (7" in water at end), no gas at surface, 120 minute final shut in period, recovered 10' of drilling mud with no show of gas, oil or water.

IHP 2831, 30" IFP 122-122, 60" ISIP 133, 60" FFP 133-133, 120" FSIP 477, FHP 2708, BHT 120°F.

Sample chamber recovery was 4000 cc of mud at a pressure of 350 psi. No gas, oil or water present.

Trilobite Testing Company, Satanta, Kansas, Robert "Ace" Collins, Engineer, May 27, 1993.

This was a good test mechanically.

Bit Record

Bit No.	Size	Make	Type	Depth Out	Feet	Hours
1.	12 1/4"	Sec	S33S	1117'	1117'	13
2.	"	"	"	1736'	610'	11 1/4
3.	7 7/8"	Sec	SBS	3488'	1752'	38 1/4
4.	"	Reed	HP52	4854'	1363'	43
5.	"	HTC	ATJ22S	6020'	1166'	64 1/4

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Deviations

256'	1/2°	2796'	3/4°	4854'	1/2°
518'	1/4	3295'	0	5388'	1/4
1000'	3/4	3488'	1/4	5616'	1 1/4
1736'	1	4110'	1/2	6020'	1/2
2250'	1	4360'	1/4		

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TRILOBITE TESTING, L.L.C.

CONFIDENTIAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

API# 15-175-21313

Well Name MOBIL ISAAC 1-9 Test No. 1 Date 5/21/93
 Company MURFIN DRILLING CO INC Zone WABAUNSEE
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2845
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN #22 Est. Ft. of Pay 4
 Location: Sec. 9 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested	<u>3439-3449</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>10</u>	Wt. Pipe I.D. - 2.7 Ft. Run	
Top Packer Depth	<u>3434-3439</u>	Drill Collar - 2.25 Ft. Run	<u>595</u>
Bottom Packer Depth	<u>3449</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>3488</u>	Viscosity	<u>43</u>
		Filtrate	<u>9.8</u>

Tool Open @ 12:50 AM Initial Blow STRONG BLOW BOTTOM OF BUCKET IN 30 SECONDS
GAS TO SURFACE IN 6 MINUTES GAUGED @ 493 MCF/DAY

Final Blow GAS TO SURFACE AS TOOL OPENED GAUGED @ 654 MCF/DAY

Recovery - Total Feet 180 Flush Tool? NO

Rec. 180 Feet of MUDDY WATER 80%WATER/20%MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

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BHT 107 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.97 @ _____ °F Chlorides 8000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1639.2 PSI AK1 Recorder No. 13851 Range 4425

(B) First Initial Flow Pressure 49.9 PSI @ (depth) 3441 w / Clock No. 27585

(C) First Final Flow Pressure 136.6 PSI AK1 Recorder No. 13850 Range 4325

(D) Initial Shut-in Pressure 877.7 PSI @ (depth) 3485 w / Clock No. 17639

(E) Second Initial Flow Pressure 170.1 PSI AK1 Recorder No. _____ Range _____

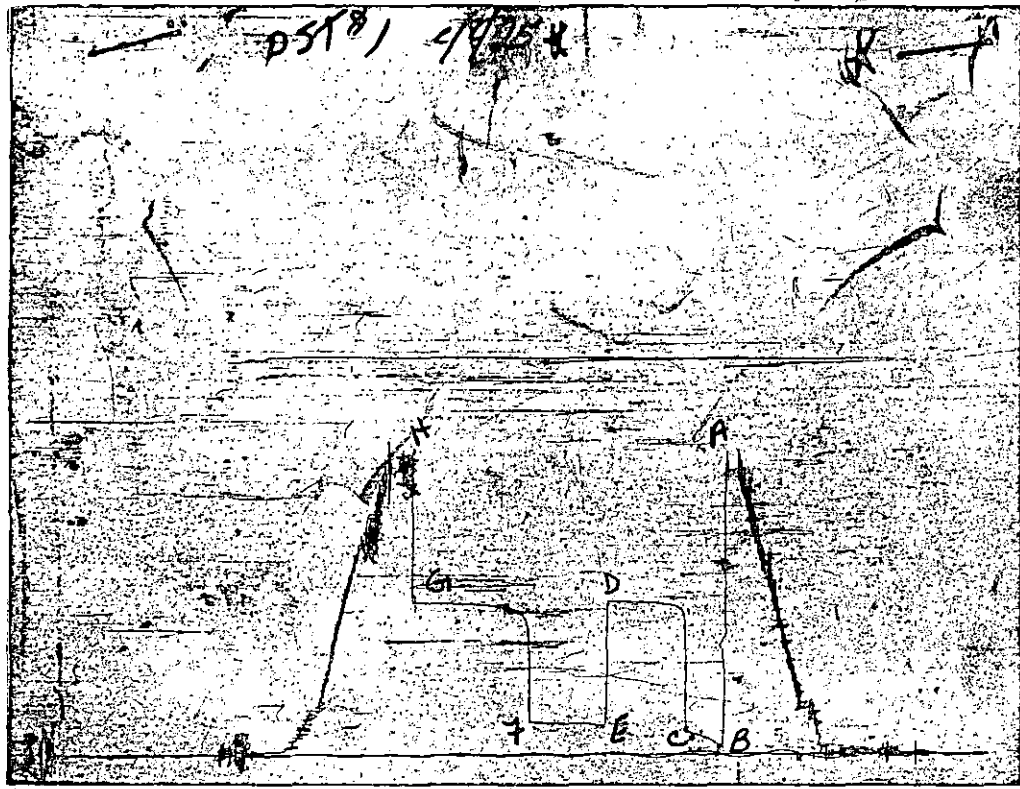
(F) Second Final Flow Pressure 187.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 872.2 PSI Initial Opening 30 Final Flow _____

(H) Final Hydrostatic Mud 1625.8 PSI Initial Shut-in 45 Final Shut-in _____

Our Representative ROBERT COLLINS

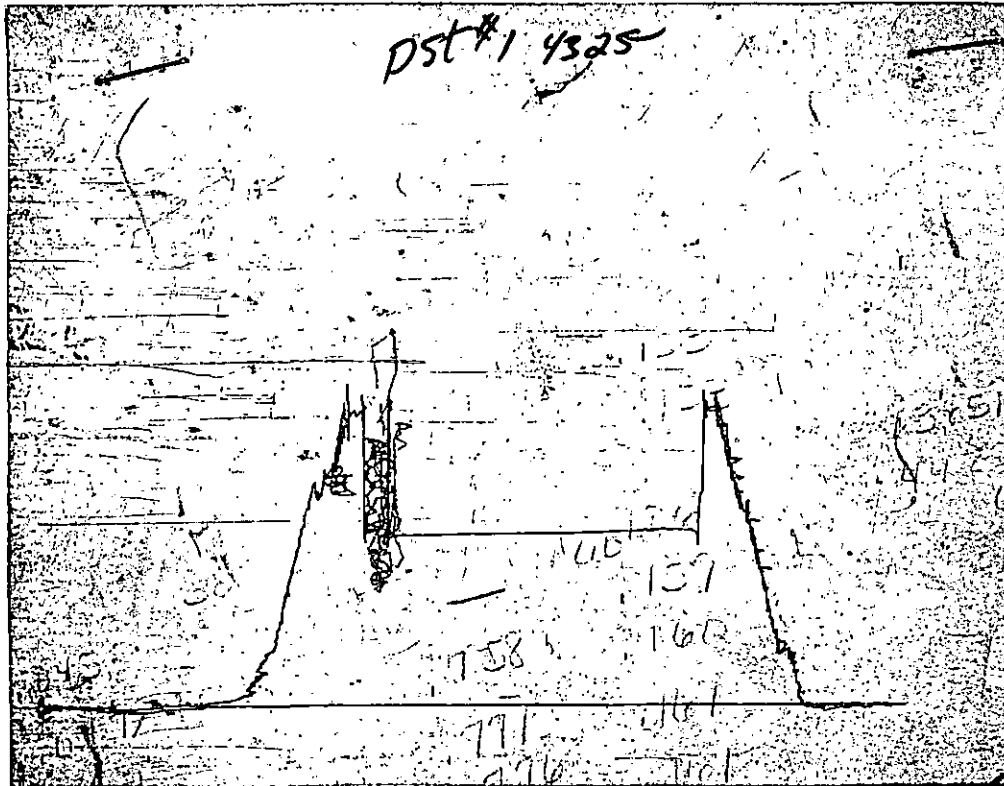
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 STATE CORPORATION COMMISSION
 60
 SEP 1 6 1993
 90
 CONSERVATION DIVISION
 Wichita, Kansas



RCC
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This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1630	1639.2
(B) FIRST INITIAL FLOW PRESSURE	55	49.9
(C) FIRST FINAL FLOW PRESSURE	133	136.6
(D) INITIAL CLOSED-IN PRESSURE	871	877.7
(E) SECOND INITIAL FLOW PRESSURE	166	170.1
(F) SECOND FINAL FLOW PRESSURE	166	187.7
(G) FINAL CLOSED-IN PRESSURE	882	872.2
(H) FINAL HYDROSTATIC MUD	1619	1625.8



100
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This is an actual photograph of recorder chart

FIELD
READING

OFFICE
READING

- (A) INITIAL HYDROSTATIC MUD
- (B) FIRST INITIAL FLOW PRESSURE
- (C) FIRST FINAL FLOW PRESSURE
- (D) INITIAL CLOSED-IN PRESSURE
- (E) SECOND INITIAL FLOW PRESSURE
- (F) SECOND FINAL FLOW PRESSURE
- (G) FINAL CLOSED-IN PRESSURE
- (H) FINAL HYDROSTATIC MUD

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COMPUTER GAS EVALUATION BY TRILOBITE TESTING, L.L.C.

MURFIN DRILLING CO INC

MOBIL ISAAC 1-9

DST 1

9 32S 32W

SEWARD

KS

ELEVATION:	2845 KB	EST. PAY:	4 FT.
DATUM:	-597	ZONE TESTED:	WABAUNSEE
TEST INTERVAL:	3439-3449	TIME INTERVALS:	30-60-45-90
RECORDER DEPTH:	3441	VISCOSITY:	0.01401 CP
BOTTOM HOLE TEMP:	107	HOLE SIZE:	7.875 IN
COMPRESSIBILITY:	0.9979	GAS GRAVITY:	0.7658

TEMPERATURE RANKINE:	567.00	&
TRANSMISSIBILITY:	17221.48	Kh/%
THEORITICAL FLOW CAPICITY:	241.34	Kh
AVERAGE EFFECTIVE PERMEABILITY:	60.34	K(md.)
RADIUS OF INVESTIGATION:	73.69	FT.
DAMAGE RATIO:	2.33	
ABSOLUTE OPEN FLOW(MAX)	684.29	MCFD
ABSOLUTE OPEN FLOW(MIN)	668.97	MCFD
THEORITICAL OPEN FLOW(MAX)	1591.67	MCFD
THEORITICAL OPEN FLOW(MIN)	1556.04	MCFD
POTENTIOMETRIC SURFACE	0.00	(FT.)

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INITIAL SHUT-IN VALUES:

SLOPE	34688.08
THEORETICAL STATIC PRESSURE	897

FINAL SHUT-IN VALUES:

SLOPE	35174.35
THEORETICAL STATIC PRESSURE	892

DRAWDOWN FACTOR: 0.57 (%)

ORIGINAL CONFIDENTIAL

INITIAL FLOW

RECORDER #13851

DST # 1

TIME(MIN)	PRESSURE	<>PRESSURE
3	49.9	49.9
6	54.4	4.5
9	68.8	14.4
12	81.1	12.3
15	93.3	12.2
18	104.4	11.1
21	114.4	10.0
24	119.9	5.5
27	125.5	5.6
30	136.6	11.1

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FINAL FLOW

RECORDER #13851

DST # 1

TIME(MIN)	PRESSURE	<>PRESSURE
3	170.1	170.1
6	170.1	0.0
9	173.3	3.2
12	176.6	3.3
15	177.7	1.1
18	178.8	1.1
21	178.8	0.0
24	181.1	2.3
27	181.1	0.0
30	181.1	0.0
33	181.1	0.0
36	181.1	0.0
39	181.1	0.0
42	182.2	1.1
45	183.3	1.1
48	184.4	1.1
51	185.5	1.1
54	187.7	2.2
57	187.7	0.0

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MOBIL ISAAC 1-9
INITIAL

DST #1
SHUTIN

30 TOTAL FLOW TIME

ORIGINAL

Slope 34688.08 psi/cycle
P * 897 psi

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T	
	3	836.2	1.041	836.2	11
	6	850.4	0.778	14.2	6
X	9	855.9	0.637	5.5	4
	12	861.3	0.544	5.4	4
	15	862.4	0.477	1.1	3
	18	866.8	0.426	4.4	3
	21	869.1	0.385	2.3	2
	24	870.1	0.352	1.0	2
	27	871.1	0.325	1.0	2
	30	872.2	0.301	1.1	2
	33	873.3	0.281	1.1	2
	36	873.3	0.263	0.0	2
	39	873.3	0.248	0.0	2
	42	873.3	0.234	0.0	2
	45	874.4	0.222	1.1	2
	48	874.4	0.211	0.0	2
	51	876.6	0.201	2.2	2
	54	877.7	0.192	1.1	2
	57	877.7	0.184	0.0	2
X	60	877.7	0.176	0.0	2

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MOBIL ISAAC 1-9
FINAL

DST #1
SHUTIN

90 TOTAL FLOW TIME

Slope 35174.35 psi/cycle
P * 892 psi

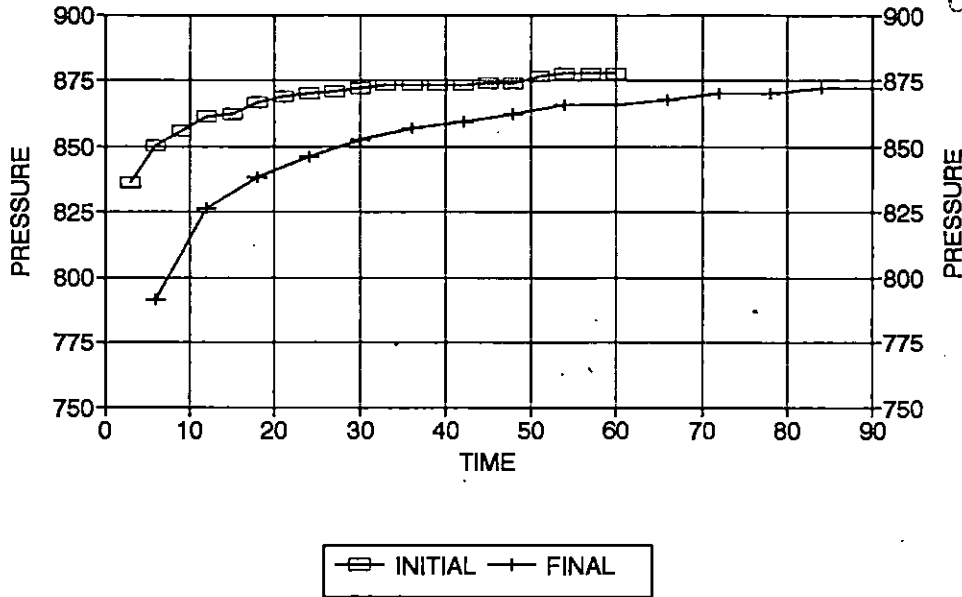
	Pws (psi)	Horn T	PRESSURE	Horn T	
	6	791.5	1.204	791.5	16
	12	826.4	0.929	34.9	9
	18	838.4	0.778	12.0	6
	24	846.1	0.677	7.7	5
	30	852.6	0.602	6.5	4
	36	857.1	0.544	4.5	4
X	42	859.2	0.497	2.1	3
	48	862.4	0.459	3.2	3
	54	865.7	0.426	3.3	3
	60	865.7	0.398	0.0	3
	66	867.9	0.374	2.2	2
	72	870.1	0.352	2.2	2
	78	870.1	0.333	0.0	2
	84	872.2	0.316	2.1	2
X	90	872.2	0.301	0.0	2

ORIGINAL

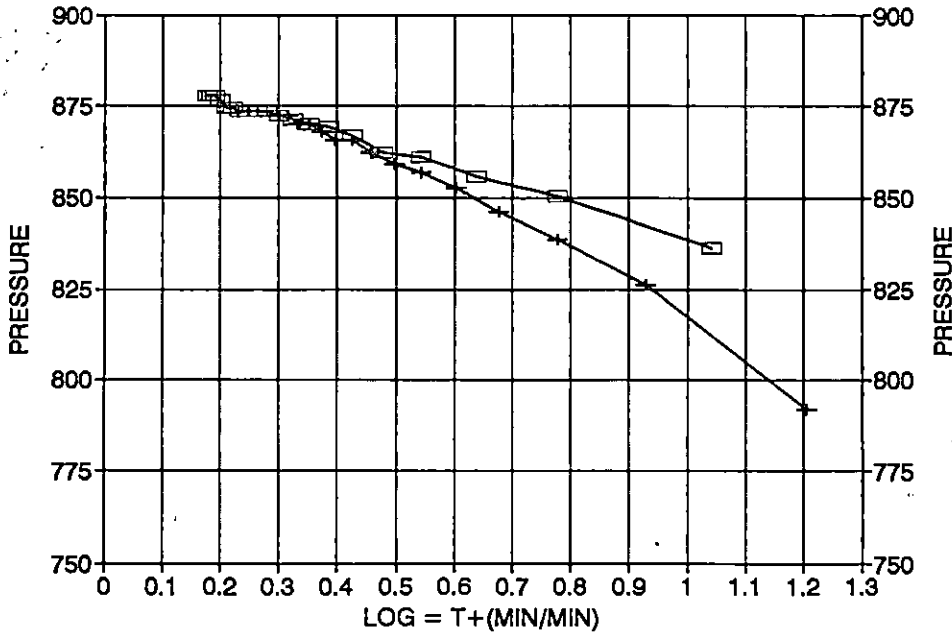
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MOBIL ISAAC 1-9 / DST #1 DELTA T DELTA P

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SEP 15
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HORNER PLOT



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GAS VOLUME REPORT

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MURFIN DRILLING CO INC

1990

MOBIL ISAAC 1-9

SEP 15

DST # 1

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MIN	INCHES	ORIFICE	MCF/D	MIN	INCHES	ORIFICE	MCF/D
	WATER				WATER		
10	14	1.5	260	10	3	1.5	654
15	26	1.5	355	20	3	1.5	654
20	42	1.5	451	30	3	1.5	654
25	48	1.5	482	40	3	1.5	654
30	50	1.5	493	50	3	1.5	654
				60	3	1.5	654

RELEASED

OCT 12 1994

FROM CONFIDENTIAL

Remarks: GAS TO SURFACE IN 6 MINUTES - GAS WILL BURN

FLUID SAMPLER DATA

ORIGINAL

CONFIDENTIAL

Ticket No.: 6028

Date: 5/21/93

100

Company: MURFIN DRILLING CO INC

SEP 1 5

CONFIDENTIAL

Lease: MOBIL ISAAC 1-9

Test No.: 1

County: SEWARD

Sec.: 9

Twp.: 32S

Rng.: 32W

SAMPLER RECOVERY

Gas 4000

Oil

Mud

Water

Other 7.7 CUBIC FT

Pressure 500

TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides

Resistivity ohms@ F

Viscosity 43

Mud Wt. 9.0

Filtrate 9.8

Other

RELEASED

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PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity 0.972 ohms@ 63 F

Chlorides 8000 ppm

ORIGINAL



PRIORITY ANALYTICAL LABORATORY, INC.
424 Greenwood • Wichita, Kansas 67211 • (316) 269-4200

CONFIDENTIAL

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EXTENDED NATURAL GAS ANALYSIS

COMPANY NAME: MURFIN DRILLING LAB# 9315941
SAMPLE ID: MOBILE ISAAC 1-9 / DST-1
SETT #: N/A
COUNTY: SEWARD LEGAL LOCATION: 9-32-32
DATE SAMPLED: N/A SAMPLER: TRILOBITE
SAMPLE PRESSURE: TEMPERATURE (F): N/A
DATE ANALYZED: MAY 29 1993
QUALITY CONTROL DATE: MAY 29 1993

*****ANALYSIS*****CALCULATED AT 14.65 PSIA, AT 60 F**NORMALIZED*****

HYDROCARBONS	MOLALX	LIQUID VOLUME%	BTU AMOUNT	GFM
METHANE	63.82	65.26	642.56	0
ETHANE	3.66	5.91	64.56	0
PROPANE	2.66	4.42	66.72	.73
ISO-BUTANE	.54	1.07	17.51	.18
NORMAL-BUTANE	1.02	1.94	33.17	.32
ISO-PENTANE	.29	.64	11.57	.11
NORMAL-PENTANE	.31	.68	12.39	.11
3-METHYLPENTANE	*			
2,3-DIMETHYLBUTANE	*			
2-METHYLPENTANE	*			
CYCLOPENTANE	*			
NORMAL HEXANE	*			
HEXANES+	.5	1.25	25.28	.22
NITROGEN	24.54	16.3	0	0
OXYGEN	0	0	0	0
CARBON DIOXIDE	2.22	2.26	0	0
HELIUM	.44	.27	0	0
HYDROGEN	TRACE (<.01)			
TOTALS*****	100	100	873.73	1.67

BTU/FT³ DRY (IDEAL GROSS): 873.73
BTU/FT³ SATURATED (IDEAL GROSS): 859.32
IDEAL SPECIFIC GRAVITY: .7658
COMPRESSIBILITY: .9979
GFM: 1.67
*-COMBINED WITH HEXANES+

RESPECTFULLY SUBMITTED

PRIORITY ANALYTICAL LAB

ORIGINAL

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Wabunsee

SEP 15

CONFIDENTIAL

Test Ticket

No. 6028

Well Name & No. Mobil Isaac 1-9 Test No. 1 Date 5-21-93
 Company Murf. n Drilling Co Inc Zone Tested Wabunsee
 Address 250 W. Water Suite 300 Wichita, KS 67202 Elevation 2845 KB
 Co. Rep./Geo. Paul Godowic Cont. Murf. n Drilling Co Inc Est. Ft. of Pay 4'
 Location: Sec. 9 Twp. 32 Rge. 32 Co. Seward State Ks
 No. of Copies 5 Distribution Sheet Yes No Turnkey Yes No Yes Evaluation

Interval Tested 3439-3449 Drill Pipe Size 4 1/2 TH
 Anchor Length 10 Top Choke — 1" Bottom Choke — 1/4"
 Top Packer Depth 3434-3439 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3449 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 3488 Drill Collar — 2.25 Ft. Run 595
 Mud Wt. 9.0 lb/gal. Viscosity 43 Filtrate 9.8
 Tool Open @ 12:50 AM Initial Blow strong blow bottom of bucket in 30 sec
gas to surface in 6 min (top of water 50 @ 1933)
 Final Blow Gas to surface as tool opened (PSI 30 @ 654)

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>180</u>		<u>X</u>
Rec. <u>180</u> Feet Of <u>Muddy water</u>	% gas	% oil <u>80</u> % water <u>20</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 107 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW .970 @ 63 °F Chlorides 8000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 1630 PSI AK1 Recorder No. 13851 Range 4425
 (B) First Initial Flow Pressure 55 PSI @ (depth) 3441 w/Clock No. 27585
 (C) First Final Flow Pressure 133 PSI AK1 Recorder No. 13850 Range 4325
 (D) Initial Shut-In Pressure 871 PSI @ (depth) 3485 w/Clock No. 17639
 (E) Second Initial Flow Pressure 166 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 166 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 882 PSI Initial Opening 30 Test 600
 (H) Final Hydrostatic Mud 1619 PSI Initial Shut-In 60 Jars 200

Final Flow 60 Safety Joint 50
 Final Shut-In 90 Straddle 250
 Circ. Sub XAL
 Sampler 200
 Extra Packer 150
 Other wal 50
 TOTAL PRICE \$ 1500

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. Godwin
 Our Representative R. Collins

TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

CONFIDENTIAL

Well Name MOBIL ISAAC 1-9 Test No. 2 Date 5/23/93
 Company MURFIN DRILLING CO INC Zone LANSING
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2845
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN #22 Est. Ft. of Pay 14
 Location: Sec. 9 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested <u>4336-4360</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>24</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>4331</u>	Drill Collar - 2.25 Ft. Run <u>595</u>
Bottom Packer Depth <u>4336</u>	Mud Wt. <u>9.0</u> lb/Gal.
Total Depth <u>4360</u>	Viscosity <u>53</u> Filtrate <u>9.0</u>

Tool Open @ 11:37 PM Initial Blow WEAK SURFACE BLOW BUILT TO 3"
 Final Blow NO BLOW WEAK SURFACE BLOW IN 10 MINUTES BUILT TO 2"

SEP 15

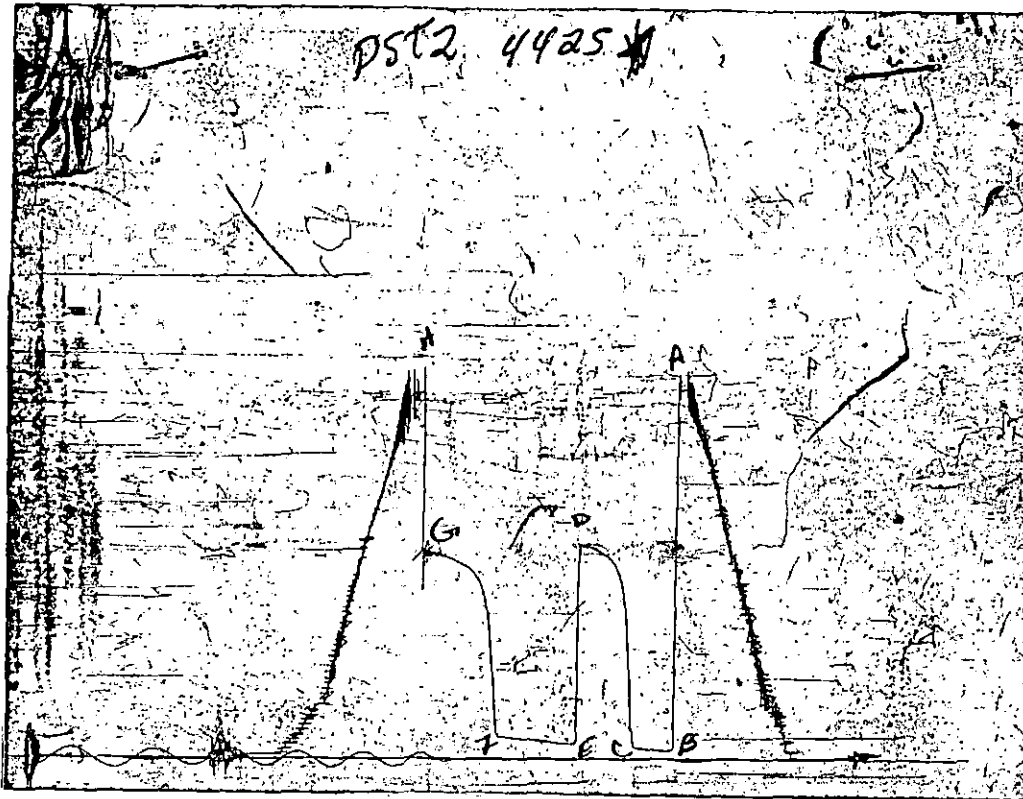
Recovery - Total Feet 187 Flush Tool? NO **CONFIDENTIAL**

Rec. 187 Feet of MUDDY WATER WITH OIL SPOTS 80%WATER/20%MUD
 Rec. _____ Feet of _____ **RELEASED**
 Rec. _____ Feet of _____ **OCT 12 1994**
 Rec. _____ Feet of _____ **FROM CONFIDENTIAL**

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.383 @ 70 °F Chlorides 20000 ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud <u>2106.9</u> PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(B) First Initial Flow Pressure <u>49.3</u> PSI	@ (depth) <u>4340</u>	w / Clock No. <u>17639</u>
(C) First Final Flow Pressure <u>61.8</u> PSI	AK1 Recorder No. <u>13851</u>	Range <u>4425</u>
(D) Initial Shut-in Pressure <u>1216.8</u> PSI	@ (depth) <u>4357</u>	w / Clock No. <u>27585</u>
(E) Second Initial Flow Pressure <u>82.6</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>129.7</u> PSI	@ (depth) _____	w / Clock No. _____
(G) Final Shut-in Pressure <u>1185.6</u> PSI	Initial Opening <u>30</u>	Final Flow <u>60</u>
(H) Final Hydrostatic Mud <u>2069.7</u> PSI	Initial Shut-in <u>45</u>	Final Shut-in <u>60</u>

Our Representative ROBERT COLLINS



RCR
SEP 15
CONFIDENTIAL

RELEASED

OCT 12 1994

FROM CONFIDENTIAL

This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2095	2106.9
(B) FIRST INITIAL FLOW PRESSURE	44	49.3
(C) FIRST FINAL FLOW PRESSURE	55	61.8
(D) INITIAL CLOSED-IN PRESSURE	1211	1216.8
(E) SECOND INITIAL FLOW PRESSURE	77	82.6
(F) SECOND FINAL FLOW PRESSURE	122	129.7
(G) FINAL CLOSED-IN PRESSURE	1178	1185.6
(H) FINAL HYDROSTATIC MUD	2062	2069.7

FLUID SAMPLER DATA

ORIGINAL

CONFIDENTIAL

Ticket No.: 6029

Date: 5/23/93

100

Company: MURFIN DRILLING CO INC

SEP 15

Lease: MOBIL ISAAC 1-9

Test No.: 2

CONFIDENTIAL

County: SEWARD

Sec.: 9

Twp.: 32S

Rng.: 32W

SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas
Oil
Mud
Water 4000
Other
Pressure
TOTAL 4000

Chlorides 4500
Resistivity ohms@ F
Viscosity 53
Mud Wt. 9.0
Filtrate 9.0
Other

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity 0.383 ohms@ 70 F
Chlorides 20000 ppm.
Gravity corrected @60F

TOP
Resistivity ohms@ F
Chlorides ppm

MIDDLE
Resistivity ohms@ F
Chlorides ppm

BOTTOM
Resistivity ohms@ F
Chlorides ppm

RECEIVED
STATE CORPORATION COMMISSION

SEP 16 1993
ppm

CONSERVATION DIVISION
Wichita, Kansas

SEP 15

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL

Test Ticket

CONFIDENTIAL

No 6029

ORIGINAL

Well Name & No. Mobil Isaac 19 Test No. 2 Date 5-23-93
 Company Murfen Drilling Co Inc Zone Tested Lansing
 Address 250 N Water Suite 300 Wichita KS 67202 Elevation 2845 KB
 Co. Rep./Geo. Paul Godowil Cont. Murfen Drilling Co Est. Ft. of Pay 14
 Location: Sec. 9 Twp. 32 Rge. 32 Co. Seward State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4336-4360 Drill Pipe Size 4 1/2 XH
 Anchor Length 24 Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 4331 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4330 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4360 Drill Collar — 2.25 Ft. Run 595
 Mud Wt. 9.0 lb/gal. Viscosity 53 Filtrate 9.0
 Tool Open @ 11:37pm Initial Blow Weak surface blow build to 3 in

Final Blow no blow weak surface blow, no m.m. build to 2 in

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>187</u>		<u>NO</u>
Rec. <u>187</u> Feet Of <u>muddy water oil gas</u>	% gas _____	% oil <u>80</u> % water <u>20</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 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 569 @ 383 °F chlorides 20000 ppm Recovery Chlorides 4500 ppm System

(A) Initial Hydrostatic Mud 2095 PSI AK1 Recorder No. 13850 Range 4325
 (B) First Initial Flow Pressure 44 PSI @ (depth) 4340 w/Clock No. 17639
 (C) First Final Flow Pressure 55 PSI AK1 Recorder No. 13851 Range 4425
 (D) Initial Shut-in Pressure 1211 PSI @ (depth) 4357 w/Clock No. 27585
 (E) Second Initial Flow Pressure 77 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 122 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 1078 PSI Initial Opening 30 Test X 600
 (H) Final Hydrostatic Mud 2062 PSI Initial Shut-in 45 Jars X 200

Final Flow 60 Safety Joint X 50
 Final Shut-in 60 Straddle _____
 Circ. Sub X NL
 Sampler X 200
 Extra Packer _____
 Other _____

Approved By Paul Roddy
 Our Representative R Collins

TOTAL PRICE \$ 1050

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.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

ORIGINAL

CONFIDENTIAL

Well Name MOBIL ISAAC 1-9 Test No. 3 Date 5/25/93
 Company MURFIN DRILLING CO INC Zone SWOPE
 Address 250 N WATER SWT #300 WICHITA KS 67202 SEP 1-5 Elevation 2845
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN #22 Est. Ft. of Pay 13
 Location: Sec. 9 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested	<u>4808-4854</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>46</u>	Wt. Pipe I.D. - 2.7 Ft. Run	
Top Packer Depth	<u>4803</u>	Drill Collar -- 2.25 Ft. Run	<u>595</u>
Bottom Packer Depth	<u>4808</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>4854</u>	Viscosity	<u>45</u>
		Filtrate	<u>10.4</u>

Tool Open @ 9:05 Initial Blow WEAK SURFACE BLOW BUILT TO BOTTOM OF BUCKET IN 17 MINU
 Final Blow WEAK SURFACE BLOW BUILT TO BOTTOM OF BUCKET IN 35 MINUTES
NO BLOW BACK ON SHUT-IN

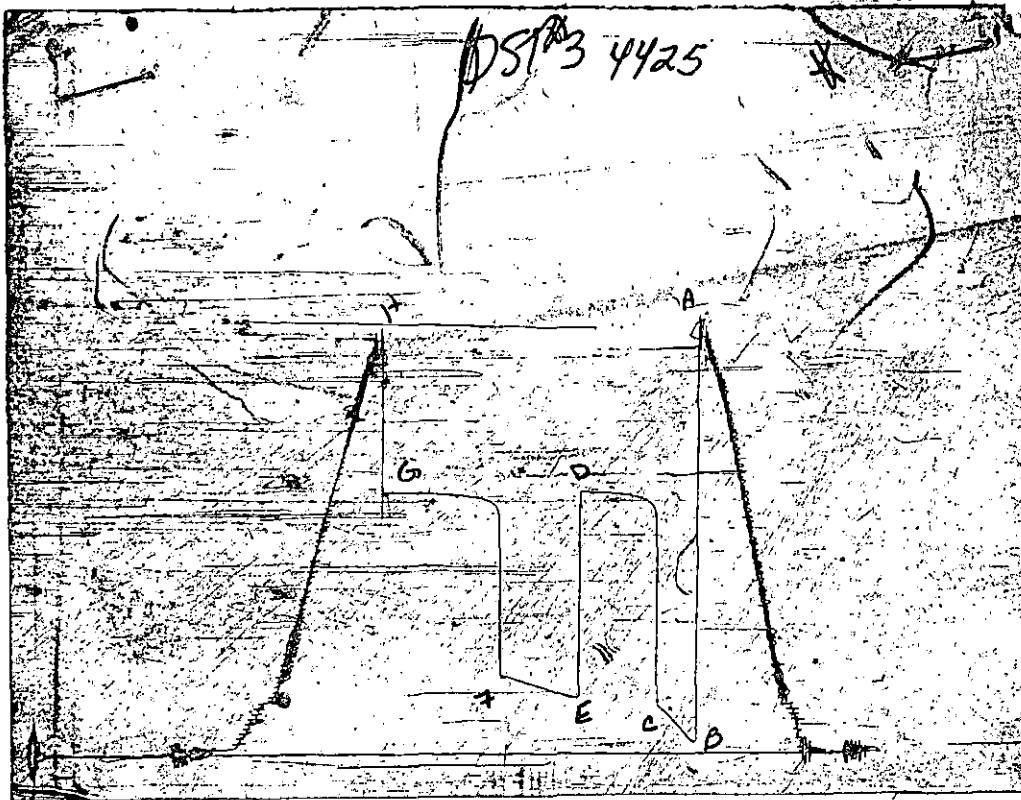
Recovery - Total Feet 980 Flush Tool? NO

Rec. <u>980</u>	Feet of <u>MUDDY WATER 60%WATER/40%MUD</u>	RELEASED
Rec. _____	Feet of _____	
Rec. _____	Feet of _____	OCT. 12 1994
Rec. _____	Feet of _____	
Rec. _____	Feet of _____	FROM CONFIDENTIAL

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.485 @ 85 °F Chlorides 10000 ppm Recovery Chlorides 6500 ppm System

(A) Initial Hydrostatic Mud 2369.4 PSI AK1 Recorder No. 13850 Range 4325
 (B) First Initial Flow Pressure 71.5 PSI @ (depth) 4812 w / Clock No. 17639
 (C) First Final Flow Pressure 275.6 PSI AK1 Recorder No. 13851 Range 4425
 (D) Initial Shut-in Pressure 1482.3 PSI @ (depth) 4851 w / Clock No. 27585
 (E) Second Initial Flow Pressure 329.6 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 448.7 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 1482.3 PSI Initial Opening 30 Final Flow 60
 (H) Final Hydrostatic Mud 2314.9 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative ROBERT COLLINS



NOV
SEP 15
CONFIDENTIAL

This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2363	2369.4
(B) FIRST INITIAL FLOW PRESSURE	66	71.5
(C) FIRST FINAL FLOW PRESSURE	266	275.6
(D) INITIAL CLOSED-IN PRESSURE	1475	1482.3
(E) SECOND INITIAL FLOW PRESSURE	322	329.6
(F) SECOND FINAL FLOW PRESSURE	444	448.7
(G) FINAL CLOSED-IN PRESSURE	1475	1482.3
(H) FINAL HYDROSTATIC MUD	2308	2314.9

FLUID SAMPLER DATA ORIGINAL

CONFIDENTIAL

Ticket No.: 6030

Date: 5/25/93

100

Company: MURFIN DRILLING CO INC

SEP 1 5

CONFIDENTIAL

Lease: MOBIL ISAAC 1-9

Test No.: 3

County: SEWARD

Sec.: 9

Twp.: 32S

Rng.: 32W

SAMPLER RECOVERY

Gas
Oil
Mud
Water 4000
Other
Pressure 300
TOTAL 4000

PIT MUD ANALYSIS

Chlorides 6500
Resistivity ohms@ F
Viscosity 45
Mud Wt. 9.0
Filtrate 10.4
Other

SAMPLER ANALYSIS

Resistivity 0.485 ohms@ 85 F
Chlorides 10000 ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

ORIGINAL

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL

Drill-Stem Test Data

Well Name MOBIL ISAAC 1-9 Test No. 4 Date 5/27/93
 Company MURFIN DRILLING CO INC Zone MORROW
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 2845
 Co. Rep./Geo. PAUL GODOWIC Cont. MURFIN #22 Est. Ft. of Pay _____
 Location: Sec. 9 Twp. 32S Rge. 32W Co. SEWARD State KS

Interval Tested	<u>5484-5616</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>132</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5479</u>	Drill Collar - 2.25 Ft. Run	<u>595</u>
Bottom Packer Depth	<u>5484</u>	Mud Wt.	<u>9.0</u> lb/Gal.
Total Depth	<u>5616</u>	Viscosity	<u>51</u> Filtrate <u>9.0</u>

Tool Open @ 1:45 AM Initial Blow WEAK SURFACE BLOW BUILD TO 2 1/2"
WEAK SURFACE BLOW BACK IN 35 MINUTES ON FIRST SHUTIN SEP 15
 Final Blow 1" BLOW AS TOOL OPENED BUILT TO 7" SLOWLY
FSI: WEAK BLOW BUILT TO 1/2" **CONFIDENTIAL**

Recovery - Total Feet 10 Flush Tool? NO

Rec. <u>10</u>	Feet of <u>DRILLING MUD</u>	RELEASED
Rec. _____	Feet of _____	OCT 12 1994
Rec. _____	Feet of _____	FROM CONFIDENTIAL
Rec. _____	Feet of _____	

BHT 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud	<u>2836.9</u> PSI	AK1 Recorder No. <u>13850</u>	Range <u>4325</u>
(B) First Initial Flow Pressure	<u>126.3</u> PSI	@ (depth) <u>5488</u>	w / Clock No. <u>17639</u>
(C) First Final Flow Pressure	<u>126.3</u> PSI	AK1 Recorder No. <u>13851</u>	Range <u>4425</u>
(D) Initial Shut-in Pressure	<u>137.4</u> PSI	@ (depth) <u>5613</u>	w / Clock No. <u>27585</u>
(E) Second Initial Flow Pressure	<u>137.4</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure	<u>137.4</u> PSI	@ (depth) _____	w / Clock No. _____
(G) Final Shut-in Pressure	<u>481.5</u> PSI	Initial Opening <u>30</u>	Final Flow <u>60</u>
(H) Final Hydrostatic Mud	<u>2715.6</u> PSI	Initial Shut-in <u>60</u>	Final Shut-in <u>120</u>

Our Representative ROBERT COLLINS

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL

SEP 15

Test Ticket

No 6030

CONFIDENTIAL

Well Name & No. Mobil Isaac 1-9 Test No. 3 Date 5-25-93
 Company Murfin Drilling Inc Zone Tested SWAPE
 Address 250 N Water Suite 300 W. Hays, KS 67208 Elevation 2845 KB
 Co. Rep./Geo. Paul Godowic Cont. Murfin Drilling Inc Est. Ft. of Pay 13
 Location: Sec. 9 Twp. 32 Rge. 32 Co. Seward State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes No _____ Evaluation _____

Interval Tested 4808-4854 Drill Pipe Size 4 1/2 XH
 Anchor Length 46 Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 4803 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4808 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4854 Drill Collar — 2.25 Ft. Run 595

Mud Wt. 9.0 lb/gal. Viscosity 45 Filtrate 10.4
 Tool Open @ 9:05 Initial Blow Weak surface blow build to bottom of bucket in 17 min
 Final Blow Weak surface blow build to bottom of bucket in 35 min
(No blow back) on shut-in

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>980</u>		<u>NO</u>
Rec. <u>980</u> Feet Of <u>Watery Mud</u>	%gas _____ %oil _____	<u>60% water 40% mud</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____	<u>65% water 35% mud</u>
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

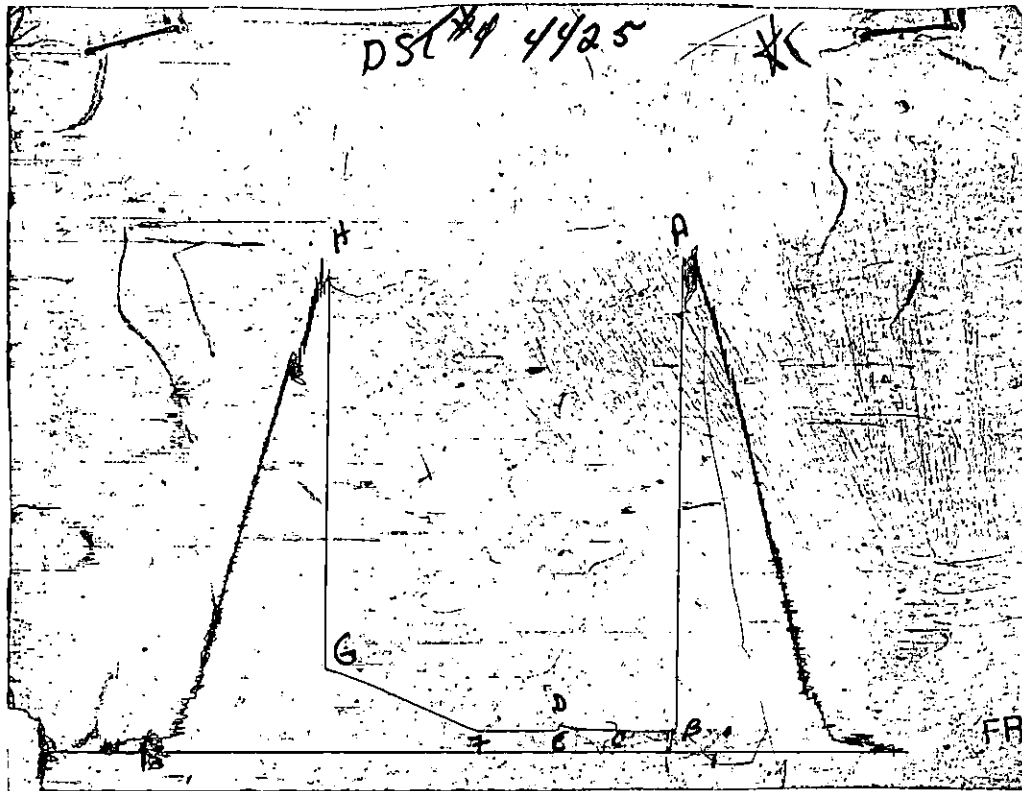
RW 485 @ 95 °F chlorides 10000 ppm Recovery chlorides 6500 ppm System

(A) Initial Hydrostatic Mud 2363 PSI AK1 Recorder No. 13850 Range 1325
 (B) First Initial Flow Pressure 66 PSI @ (depth) 4802 w/Clock No. 17639
 (C) First Final Flow Pressure 266 PSI AK1 Recorder No. 13851 Range 4425
 (D) Initial Shut-In Pressure 1475 PSI @ (depth) 4851 w/Clock No. 27585
 (E) Second Initial Flow Pressure 322 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 447 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1475 PSI Initial Opening 30 Test 600
 (H) Final Hydrostatic Mud 2308 PSI Initial Shut-In 60 Jars 200

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Final Flow 60 Safety Joint 50
 Final Shut-In 90 Straddle _____
 Circ. Sub MC
 Sampler 200
 Extra Packer _____
 Other _____

Approved By Paul Godowic
 Our Representative R. Collins



SEP 15

CONFIDENTIAL

RELEASED

OCT 12 1994

FROM CONFIDENTIAL

This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2831	2836.9
(B) FIRST INITIAL FLOW PRESSURE	122	126.3
(C) FIRST FINAL FLOW PRESSURE	122	126.3
(D) INITIAL CLOSED-IN PRESSURE	133	137.4
(E) SECOND INITIAL FLOW PRESSURE	133	137.4
(F) SECOND FINAL FLOW PRESSURE	133	137.4
(G) FINAL CLOSED-IN PRESSURE	477	481.5
(H) FINAL HYDROSTATIC MUD	2708	2715.6

FLUID SAMPLER DATA

CONFIDENTIAL

Ticket No.: 6031

Date: 5/27/93

Company: MURFIN DRILLING CO INC

SEP 15

Lease: MOBIL ISAAC 1-9

Test No.: 4

CONFIDENTIAL

County: SEWARD

Sec.: 9

Twp.: 32S

Rng.: 32W

SAMPLER RECOVERY

Gas
Oil
Mud 4000
Water
Other
Pressure 350
TOTAL 4000

PIT MUD ANALYSIS

Chlorides 2500
Resistivity ohms@ F
Viscosity 51
Mud Wt. 9.0
Filtrate 9.0
Other

SAMPLER ANALYSIS

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

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides 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

ORIGINAL

CONFIDENTIAL No. 6031

Test Ticket

Well Name & No. Mobil Fraccc 1-9 Test No. 4 Date 5-27-93
 Company Murfin DRlg Zone Tested Morrow
 Address 250N water suite 300 W. Wichita St 67202 Elevation 2845 KB
 Co. Rep./Geo. Paul Goddard Cont. Murfin DRlg #22 Est. Ft. of Pay _____
 Location: Sec. 9 Twp. 32S Rge. 32W Co. Seaward State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 5484-5616 Drill Pipe Size 4 1/2" PH
 Anchor Length 132 Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 5479 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5484 SEP 1 5 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5616 CONFIDENTIAL Drill Collar — 2.25 Ft. Run 595
 Mud Wt. 9.0 lb/gal. Viscosity 51 Filtrate 9.0

Tool Open @ 1:45 AM Initial Blow Weak surface blow build to 2 1/2 in
Weak surface blow back in 35 min on first slug in
 Final Blow In blow as tool opened build to 7 in slowly
Final shut in Weak blow build to 7 in

Recovery — Total Feet 10 Feet of Gas In Pipe _____ Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>10</u>	<u>DRlg Mud</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 120 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F chlorides _____ ppm Recovery Chlorides 2500 ppm System

(A) Initial Hydrostatic Mud 2831 PSI Ak1 Recorder No. 13850 Range 4325
 (B) First Initial Flow Pressure 122 PSI @ (depth) 5488 w/Clock No. 17639
 (C) First Final Flow Pressure 122 PSI Ak1 Recorder No. 13851 Range 4425
 (D) Initial Shut-in Pressure 133 PSI @ (depth) 5613 w/Clock No. 27585
 (E) Second Initial Flow Pressure 133 PSI Ak1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 133 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 477 PSI Initial Opening 30 Test X
 (H) Final Hydrostatic Mud 2708 PSI Initial Shut-in 60 Jars X

Final Flow 60 Safety Joint X
 Final Shut-in 120 Straddle 0
 Circ. Sub X/NO
 Sampler X
 Extra Packer 0
 Other _____
 Approved By Paul F. Goddard
 Our Representative R. Collins
 TOTAL PRICE \$ _____

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.

SEP 15

CONFIDENTIAL

ORIGINAL

27, Russell, Kansas
-793-5861, Great Bend, Kansas

CONFIDENTIAL

Phone Plainville 913-434-2812
Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

4980

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	5-18-93	Sec.	9	Fwp.	32 S	Range	32 W	Called Our	11:00 PM	On Location	4:00 AM	Job Start	9:00 AM	Finish	9:45 AM
Lease	Mobil-Isac	Well No.	1-9	Location	834 160 Jct -4E-3/4N			County	Seward	State	KS.				

Contractor	Murtin Drlg Rig #22		
Type Job	Surface		
Hole Size	12 1/4	T.D.	1736
Csg.	8 5/8 24 #	Depth	1735
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.		Shoe Joint	45
Press Max.		Minimum	
Meas Line	Mo	Displace	108
Perf.			

Owner Murtin Drlg
 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 Murtin Drlg Co.
 Street 250 N Water Suite 300
 City Wichita State Kan 67202
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
 X Tom Heskett

EQUIPMENT

Okley No.	Cementor	Fitz
Pumptrk 300	Helper	
No.	Cementor	
Pumptrk	Helper	
	Driver	
Bulktrk 212		Walt
Bulktrk 305	Driver	Steve

CEMENT	
Amount Ordered	450 sk. Lite 31cc + 1/4 # Flo Seal / sk
Consisting of	200 sk. Common 31cc 21 cc 1/4 # Flo Seal / sk
Common	200 SKS @ 5.75 = 1,150.00
Poz. Mix	
Gel.	4 SKS @ 7.00 = 28.00
Chloride	20 SKS @ 25.00 = 500.00
Lightweight	450 SKS @ 4.75 = 2,137.50

DEPTH of Job	1735
Reference:	Pumptruck 980.00
	1-880 Rubber plug 83.00
	235 per mile 101.25
	Sub Total
	Tax
	Total 1,164.25

Handling	1.00 per sk	650.00
Mileage	4¢ per SK/mile	1,170.00
	45 miles	
	RELEASED	Sub Total
	OCT 12 1994	Total 5635.50

Remarks:
 Hook up to mud pump to circulate mud. Hook up to truck and mix 450 sk lite followed with 200 sk. of common cement. Displace plug to insert with fresh water. Circulated 20 sk. of cement into pit

Floating Equipment
 FROM CONFIDENTIAL
 1- Trk. Pti. Guide Shoe - RECEIVED
 1- Insert
 1- Cement Basket
 3- Controlizers
 STATE CORPORATION COMMISSION
 SEP 26 1993
 CONSERVATION DIVISION
 STATE OF KANSAS
 Thank you!

ORIGINAL

100



P.O. BOX 951046
DALLAS, TX 75395-1046

SEP 15 HALLIBURTON SERVICES

ORIGINAL
CONFIDENTIAL

INVOICE

CONFIDENTIAL

A Halliburton Company

INVOICE NO.	DATE
345464	05/30/19

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
MOBIL-ISAAC 1-9	SEWARD	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL	MURFIN #22	CEMENT PRODUCTION CASING	05/30/19
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
614500	J. T.		
			SHIPPED VIA
			COMPANY TRUCK
			FILE
			514

MURFIN DRUG CO
BOX 661
COLBY, KS 67701

USED FOR # cement prod
APPROVED ST [Signature]

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - EASTERN AREA1 MILEAGE	36	MI	2.75	99.00
001-016	PLUG-BACK & CASING JOB COMBO	3718	FT	1,345.00	1,345.00
009-308	PLUG-BACK & CASING JOB COMBO	1	HR	890.00	890.00
80	FORM PKR SHOE FLAP VLV 4 1/2"	1	EA	2,300.00	2,300.00
855.128	CEMENT BASKET 4 1/2"	2	EA	105.00	210.00
800.8881	CENTRALIZER 4-1/2 X 7 7/8 8.44	5	EA	43.00	215.00
40	ROTO WALL CLEANER 2 1/8" SPIKE	16	EA	22.00	352.00
807.93004	HALLIBURTON WELD-A	1	LB	14.50	14.50
60	CLAYFIX II	3	GAL	21.50	64.50
807.0007	CEMENT - PREMIUM	60	SK	8.69	521.40
350	POZMIX A	2960	LB	.067	198.30
890.10802	HALLIBURTON-GEL 2%	2	LB	.00	N/C
218-738	HALLIBURTON-GEL BENTONITE	3	SK	15.50	46.50
504-043	BULK SERVICE CHARGE	104	CFT	1.25	132.50
506-105	MILEAGE CMTG MAT DEL OR RETURN	164.098	TMI	.85	139.47
506-121	CEMENT - 50/50 POZMIX PREMIUM	325	SK	6.82	2,216.50
507-277	HALAD-322	205	LB	6.90	1,414.50
500-207	SALT	1557	LB	.13	202.41
500-306	BULK SERVICE CHARGE	347	CFT	1.25	433.75
504-131	MILEAGE CMTG MAT DEL OR RETURN	532.944	TMI	.85	453.00

INVOICE SUBTOTAL

RELEASED

OCT 12 1994

RECEIVED 248.35
STATE CORPORATION COMMISSION

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

SEP 16 1993

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

CONSERVATION DIVISION
Wichita, Kansas

DISTRICT Liberal KS

DATE 4-30-93

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Murphy Drilling (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1-9 LEASE MOBIL ISAAC SEC. 9 TWP. 32 RANGE 32

FIELD COUNTY Seward STATE Kansas OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

PACKER: TYPE 1000 SET AT _____

TOTAL DEPTH _____ MUD WEIGHT SEP 1.3

BORE HOLE _____

INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	N		4 1/2		3718	1500
LINER						
TUBING	U	16.6	4 1/2	KB	5900	
OPEN HOLE			7 7/8	KB	6000	SHOTS/FT.
PERFORATIONS			<u>Plus Back to</u>		3370	
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Plug Back w/100 sacks 6% Poz H. 6% total Gel. Cement 4 1/2 Prod CS9
with 325 3/4 Poz H. 10% salt 3/4 Halad-300. DisP Latch Down Plug
with 2% KCL H₂O

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section (b) and Section (c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies or equipment, of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections (b) and (c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
 - That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton assumes no responsibility for the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. **RELEASED FROM CONFIDENTIAL** EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTENDS BEYOND THOSE STATED IN THE IMMEDIATE PRECEDING SECTION. Customer's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

SIGNED: [Signature] CUSTOMER

DATE: 4-30-93

TIME: 1430 A.M. P.M.

RECEIVED STATE CORPORATION COMMISSION SEP 16 1993 CONSERVATION DIVISION Wichita, Kansas

CONFIDENTIAL

WELL DATA

FIELD _____ SEC. 9 TWP. 30 RNG. 32 COUNTY Seward STATE Kansas

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ **ORIGINAL** MCFD _____

PRESENT PROD. OIL _____ BPD. WATER 1.5 BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ PRESSURE _____

BOTTOM HOLE TEMP. _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	10.5	4.5	KB	3718	
LINER						
TUBING	U	16.6	4.5	KB	5900	
OPEN HOLE			7 7/8	KB	6020	SHOTS/FT.
PERFORATIONS		Plus Back To			5390	
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>5-30-93</u>	DATE <u>5-30-93</u>	DATE <u>5-30-93</u>	DATE <u>5-31-93</u>
TIME <u>1130</u>	TIME <u>1330</u>	TIME <u>1430</u>	TIME <u>0430</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>B. Sauter</u> (6478)	PU 110048	Liberal
<u>T. Bohannon</u> (87748)	RCM 52823-75314	Liberal
	BUK	
<u>S. Tate</u> (E0368)	51824-6612	Hugoton
	BUK	
<u>D. Pierce</u> (B7106)	3626-11515	Hugoton

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
Float Collar <u>Formation PKR shoe</u>	<u>1</u>	
Float shoe <u>Cent. Back 1.5</u>	<u>2</u>	<u>H</u>
Guide shoe		<u>0</u>
Centralizers <u>S-4</u>	<u>5</u>	<u>W</u>
Bottom Plug <u>Wall Cleaners</u>	<u>2H-11</u>	<u>C</u>
Top Plug <u>Latch Down</u>	<u>1</u>	<u>0</u>
Head		
Packer		
Other <u>WID-A</u>	<u>1</u>	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API _____

DISPL. FLUID _____ DENSITY _____ LB/GAL. API _____

PROP. TYPE _____ SIZE _____ LB. _____

PROP. TYPE _____ SIZE _____ LB. _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

SURFACTANT TYPE _____ GAL. _____ IN _____

NE AGENT TYPE _____ GAL. _____ IN _____

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN _____

GELLING AGENT TYPE _____ GAL.-LB. _____ IN _____

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN _____

BREAKER TYPE _____ GAL.-LB. _____ IN _____

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Plus Back 1.5

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X. J. [Signature]

HALLIBURTON OPERATOR B. Sauter COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>100</u>	<u>60/40 Pol</u>	<u>H</u>	<u>B</u>	<u>1% Total Gel</u>	<u>1.57</u>	<u>13.4</u>
	<u>325</u>	<u>50/50 Pol</u>	<u>H</u>	<u>B</u>	<u>10% Salt - 3/4% Halal - RELEASED</u>	<u>1.28</u>	<u>14.4</u>

OCT 12 1994

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 58.3

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. Plus Back 27.9 **RESERVED**

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL.-GAL. _____ STATE COOPERATION COMMISSION _____

TREATING _____ DISPL. _____ OVERALL _____ REMARKS Plus Did not Bump **SEP 16 1993**

FEET 48 REASON Shoe JT Shut in Heavy manifold

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER Muffin Drilling

LEASE MOBIL Isaac

WELL NO. 1-9

JOB TYPE Plus Back-1.5



BULK MATERIALS DELIVERY AND TICKET CONTINUATION

HALLIBURTON SERVICES
Duncan, Oklahoma 73534

A Division of Halliburton Company

FOR INVOICE AND
TICKET NO. **CONFIDENTIAL 45464**

DATE 5-30-93	CUSTOMER ORDER NO.	WELL NO. AND FARM Mobil-Isaac 1-9	COUNTY Seward	STATE Kansas
CHARGE TO Murfin Drilling		OWNER	CONTRACTOR Murfin #22	
MAILING ADDRESS SEP 1 5		DELIVERED FROM Hugoton, Kansas	LOCATION CODE 025535	PREPARED BY Don Phillips
CITY & STATE CONFIDENTIAL		DELIVERED TO N/E Liberal, Kansas	TRUCK NO.	RECEIVED BY
No. B 171152				

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-043	516.00272	2	B	Premium Cement	60	sk			8.69	869	00
506-105	516.00286	2	B	Pozmix "A" (40)	2960	1b			.067	198	32
506-121	516.00259	2	B	Halliburton Gel 2%	2	sk					NC
507-277	516.00259	2	b	Halliburton Gel 4% added	3	sk			15.50	46	50
<p style="font-size: 2em; opacity: 0.5; transform: rotate(-45deg);">THIS IS NOT AN INVOICE</p>											
<p>RELEASED OCT 12 1994 FROM CONFIDENTIAL</p>											
				Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES				
				SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET				
500-207		2	B	SERVICE CHARGE			CU. FEET		106	132	50
500-306		2	B	Mileage Charge	9,116#	36	TON MILES		164.088	139	48
No. B 171152		CARRY FORWARD TO INVOICE					SUB-CONSERVATION DIVISION Wichita, Kansas				



HALLIBURTON SERVICES
Owens, Oklahoma 73033

BULK MATERIALS DELIVERY
AND
TICKET CONTINUATION

CONFIDENTIAL
FOR INVOICE AND
TICKET NO. 345464

A Division of Halliburton Company

DATE 5030-93	CUSTOMER ORDER NO.	WELL NO. AND FARM Mobil Isaac 1-9	COUNTY Seward	STATE Kansas
CHARGE TO Murfin Drilling	OWNER same	CONTRACTOR Murfin #22		
MAILING ADDRESS SEP 1 5	DELIVERED FROM Hugoton, Kansas	LOCATION CODE 025535	PREPARED BY Don Phillips	
CITY & STATE CONFIDENTIAL	DELIVERED TO N/E Liberal, Kansas	TRUCK NO.	RECEIVED BY	
No. B 171154				

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-131		2	B	50/50 Pozmix Cement	325	sk			6.82	2,216	50
504-043	516.00272										
506-105	516.00286										
506-121	516.00259										
507-775	516.00144	2	B	Halad-322 B/ .75% W/ 325	205	lb			6.90	1,414	50
509-968	516.00315	2	B	Granulated Salt B/ 10% W/ 325	1,557	lb			.13	202	41

THIS IS NOT AN INVOICE

		Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES				
		SERVICE CHARGE ON MATERIALS RETURNED				CU. FEET			
508-207	2	B	SERVICE CHARGE		CU. FEET	347	STATE CORPORATION COMMISSION	RECEIVED	433 75
500-306	2	B	Mileage Charge	29,608#	36	532.944		SEP 16 1993	453 00
No. B 171154			TOTAL WEIGHT	LOADED MILES	TON MILES			CARRY FORWARD TO INVOICE	SUB TO CONSERVATION DIVISION Wichita, Kansas

CUSTOMER

SEP 15

HALLIBURTON SERVICES

Duncan, Oklahoma 72528

A Division of Halliburton Company

CONFIDENTIAL NO. 345464-9

TICKET

CONFIDENTIAL

FORM 1906 R-11

WELL NO.-FARM OR LEASE NAME Mobil Isaac 1-9		COUNTY Seward	STATE Kansas	CITY / OFFSHORE LOCATION	DATE 5-30-93
CHARGE TO MURFIN Drdg. Co. Inc.		OWNER Same	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS 250 N. Water Suite 300		CONTRACTOR MURFIN Drdg. Co. Inc.	LOCATION 1 Liberal		CODE 25540
CITY, STATE, ZIP Wichita KS, 67202		SHIPPED VIA COTR	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	LOCATION 2 Hugoton	CODE 25535
WELL TYPE 01	WELL CATEGORY 01	WELL PERMIT NO.	DELIVERED TO Location 1	LOCATION 3	CODE
TYPE AND PURPOSE OF JOB Plug Back Lis. 4 1/2		ORDER NO. B-171154	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials or their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117				MILEAGE IRCM	36	mi			2.75	99.00
009-308	001-016			Pump charge	3718	Feet				1345.00
009-308				Pump charge	0-8	hrs				890.00
80	855.128			formation Packer shoe	1	eq				2300.00
320	800.8881			cement Basket	2	eq			165.00	210.00
NO	807.93004			centralizer S-4	5	eq			43.00	215.00
605	807.0007			wall cleaners	16	eq			22.00	352.00
350	890.0080			weld A	1	LB				14.50
218.738				CLA Fix 4	3	gal			21.50	64.50

THIS IS NOT AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-171154
171152

4130
1285
16
80

WAS JOB SATISFACTORY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CUSTOMER OR HIS AGENT (PLEASE PRINT)

CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Bill Gaudin
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL _____

CUSTOMER

RECEIVED
STATE CORPORATION COMMISSION

SEP 16 1993

APPLICABLE TAXES WILL BE ADDED ON INVOICE

CONSERVATION DIVISION
Wichita, Kansas

JOB LOG

WELL NO. 1-9 LEASE MOBIL Isaac TICKET NO. 345464

CUSTOMER Marfin Drilling PAGE NO. _____

ORIGINAL

JOB TYPE Plug Back L.S. DATE 5-30-93

FORM 2013 R-2

*CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1130							<p style="text-align: right; font-weight: bold; font-size: 1.2em;">CONFIDENTIAL</p> <p>Called out on Location Rig circulating on Bottom</p> <p>SEP 1 5</p> <p>Hook UP Truck</p> <p>spot 100 SK Plug at 5900 FT</p> <p>DISP w/mud</p> <p>ToH w/D.P. 50 Jts</p> <p>circulate w/Rig</p> <p>on Loc weld on scratchers</p> <p>Lay Down Drill Pipe 7 Collars</p> <p>start CSG</p> <p>CSG on Bottom</p> <p>circulate w/Rig</p> <p>Hook Truck - Drop Ball To set PKR</p> <p>500 Press up on PKR shoe</p> <p>800 Press up</p> <p>1200 Press up</p> <p>1250 PKR shoe set</p> <p>circulate w/Rig</p> <p>Hook Truck</p> <p>250 mix cement</p> <p>wash up</p> <p>Drop Latch Down Plug</p> <p>200 start DISP</p> <p>300 Caught Cement</p> <p>400 slow Rate</p> <p>Total DISP Plug did not Bump.</p> <p>HAD To shut in Head + manifold.</p> <p>Job complete Thank you For calling Halliburton services</p> <p>Bill Jacobs and crew</p>
	1330							
	1425							
	1429		27.9					
	1437		69.2					
	1453							
	1830							
	2030							
	0015							
	0150							
	0155							
	0225							
	0246	1/4	2			500		
	0248	1/4				800		
	0250	1/4				1200		
	0252	1/4	3006 Total			1250		
	0254							
	0324							
	0326	1/6	74			250		
	0343							
	0346							
	0348	6				200		
	0354	6	38			300		
	0356	1.5	50			400		
	0404		58.5					

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CONSERVATION DIVISION
Wichita, Kansas