

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

ORIGINAL

API NO. 15- 199-20211-02-60

County Wallace

SW SE SE Sec. 30 Twp. 15S Rge. 41W E
W

Operator: License # 30606

330 Feet from (S) (circle one) Line of Section

Name: Murfin Drilling Co., Inc.

1000 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 Nikrbash Well # 1-30

Purchaser: _____

Field Name Unknown

Operator Contact Person: Larry M. Jack

Producing Formation _____

Phone () 267-3241

Elevation: Ground 3806 KB 3816

Contractor: Name: Murfin Drilling Co., Inc.

Total Depth 5300 PBDT _____

License: 30606

Amount of Surface Pipe Set and Cemented at 380 Feet

Wellsite Geologist: Curtis Covey

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion
 New Well Re-Entry

If yes, show depth set _____ Feet

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

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cat.

Drilling Fluid Management Plan D&A JH 2-28-94
(Data must be collected from the Reserve Pit)

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

Chloride content 5800 ppm Fluid volume 2500 bbls

Operator: _____

Dewatering method used evaporation

Well Name: _____

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 _____

Lease Name _____ License No. _____

11/23/93 12/02/93
Spud Date Date Reached TD Completion Date

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, Production Manager Date 12/16/93

Subscribed and sworn to before me this 16 day of December 19 93.

Notary Public Kerran Redington

Date Commission Expires _____

12/16/94
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
RECEIVED
STATE CORPORATION COMMISSION
DISTRIBUTION
DEC 17 1993
KCC _____ SWD/Rep _____ NEPA _____
XGS _____ Plug _____ Other _____
CONSERVATION DIVISION
Wichita, Kansas
Form ACD-1 (7-91)

Operator Name Murfin Drilling Co., Inc.

Lease Name Nikrbash

Well # 1-30

Sec. 30 Twp. 15S Rge. 41W

East

County Wallace

West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

List All E.Logs Run: COMPENSATED DENSITY/CALIPER

BHC ACOUSTILOG

PROLOG

Drill stem tests attached.

DUAL INDUCTION

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

Geological report 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	380	60/40 Poz	240	3%cc, 2%gel

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

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SMD or Inj. Producing Method Flowing Pumping Gas Lift Other (Explain)

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

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

METHOD OF COMPLETION

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

Production Interval _____

15-199-20211-00-00
Curtis E. Covey
PETROLEUM GEOLOGIST

CONFIDENTIAL

ORIGINAL

AAPG
GSA
SPE

KCC

AIPG
CSPG
SPWLA

DEC 1 6

CONFIDENTIAL

3 December 1993

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

RELEASED

Re: Nikrbash #1-30
1,000' FEL & 330' FSL, SE/4 3-T15S-R41W
Wallace County, Kansas

FEB 1 4 1995

FROM CONFIDENTIAL

Gentlemen,

The following manuscript letter and enclosed geologist's log are a summary of the referended well.

RECOMMENDATION

A recommendation is made to the operator that the well be considered non-commercial and be plugged in accordance with state rules and regulations. All samples were analyzed from 3,900' to RTD (5,300') for hydrocarbon content.

There were no major show(s) encountered during the drilling of the Nikrbash #1-30. Minor show(s) were encountered in the Marmation Limestone (4,650'-55') and the Morrow Sandstone (5,013'-22' & 5,077'-85').

GEOLOGICAL DATA

Formation Tops*:	Base/Fort Hays Limestone . . .	1,026'	(+2,790')
	Greenhorn Limestone	1,231'	(+2,585')
	Dakota Sandstone	1,416'	(+2,400')
	Blaine Salt	2,230'	(+1,586')
	Anhydrite	2,743'	(+1,073')
	Neva Limestone	3,468'	(+348')
	Topeka Limestone	3,888'	(-72')
	Heebner Shale	4,114'	(-298')
	Toronto Limestone	4,140'	(-324')
	Lansing Group	4,172'	(-356')
	Stark Shale	4,438'	(-622')
	Marmaton Group	4,573'	(-757')
	Cherokee Shale	4,723'	(-907')

RECEIVED
STATE CORPORATION COMMISSION

DEC 17 1993

CONSERVATION DIVISION

Wichita, Kansas
(316) 776-0367

Murfin Drilling Company
NIKRBASH #1-30
1,000' FEL & 330' FSL, SE/4. 30-T15S-R41W
Wallace County, Kansas

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DEC 1 6

GEOLOGICAL DATA Cont'd.

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Atokan Stage	4,888'	(-1,072')
Morrow Shale	4,983'	(-1,167')
Middle Morrow Sandstone	5,013'	(-1,197')
Lower Morrow Sandstone	5,077'	(-1,261')
Keyes Limestone	5,099'	(-1,283')
Mississippi	5,150'	(-1,334')

* Log measure from Kelly Bushing; 10 feet above Permanent Datum.

Sample examination used in conjunction with electric logs' calculations suggest the information as noted below.

MAJOR SHOW(S)

There were no major show(s) encountered during the drilling of the Nikrbash #1-30.

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FEB 1 4 1995

MINOR SHOW(S)

FROM CONFIDENTIAL

1. Marmaton Limestone Limestone -- White. Singular. Micro-/Crypto-xln. Xln porosity. Dusty clear Re-xln. Trace visible porosity.
(4,650'-55')
 $\phi_{xp} = 2\% - 4\%$, $R_t = 50$ ohms,
 $R_w = 0.05$ ohms &
 $S_w = 100\%$. (Archies)
Faint odor. Spotted yellow flourescence.
After crushing, weak live brown free oil.
No gas. Spotted medium brown stain.
Positive cut/residual. Positive acid/residual.
No permeability as suggested by DST #1, resistivity profile and lack of mudcake.
2. Middle Morrow Sandstone Sandstone -- Clear/White. Mottled. VF/F grain size. Poor/Moderately sorted. Poor/Moderate sphericity. Point/sutured grain contacts. Calc infill & cement. Minute pyrite/glaucanitic grains. 'Heavy' misc grains. Friable. Some disseminated grains. Fair/Good visible porosity.
(5.013'-22')
 $\phi_{xp} = 14\% - 21\%$ (ss matrix),
 $R_t = 2.4 - 6$ ohms,
 $R_w = 0.061$ ohms @ 140°F &
 $S_w = 59\% - 86\%$. (Humbles)
Faint odor. Uniform white flourescence.
On own & after crushing, free minute gas bubbles & minute globs of light brown oil.
Spotted/uniform light brown stain.
Excellent/Good permeability as suggested by DST #3 & #4, resistivity profile and mudcake. Sand above this interval is poor/fair as suggested by DST #2.
positive cut/residual. Strong positive acid/residual.

DEC 17 1993

ORIGINAL

API#15-199-20211-00-00

FORMATION

TEST

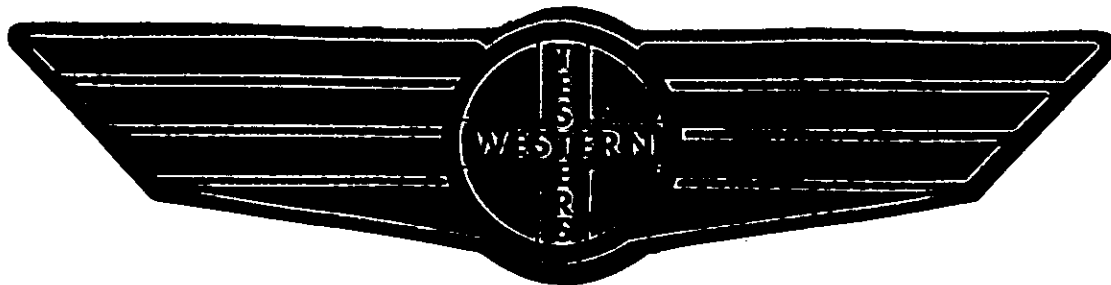
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REPORT

RELEASED

12 9 8 1993

FROM CONFIDENTIAL



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

RECEIVED
STATE CORPORATION COMMISSION

DEC 17 1993

CONSERVATION DIVISION
Wichita, Kansas

COMPANY MURFIN DRILLING CO., INC. LEASE & WELL NO. #1-30 NIKRBASH SFC. 30 TWP. 15S RGE. 41W TEST NO. 1 DATE 11/27/93

DST REPORT

GENERAL INFORMATION

DATE : 11/27/93
CUSTOMER : MURFIN DRILLING CO., INC
WELL : #1-30 TEST: 1
ELEVATION: 3816 KB
SECTION : 30
RANGE : 41W COUNTY: WALLACE
GAUGE SN#: 11018 RANGE : 4425
TICKET : 20121
LEASE : NIKRBASH
GEOLOGIST: COVEY
FORMATION: MARMATON
TOWNSHIP : 15S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4650.00 ft TO: 4723.00 ft TVD: 4723.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4655.0 ft 4720.0 ft
TEMPERATURE: 130.0
DRILL COLLAR LENGTH: 520.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 4104.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 26.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 73.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 4645.0 ft SIZE: 6.630 in
PACKER DEPTH: 4650.0 ft SIZE: 6.630 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 25
MUD TYPE : CHEMICAL
WEIGHT : 9.400 ppg
CHLORIDES : 5800 ppm
JARS-MAKE : WTC
DID WELL FLOW?: NO
VISCOSITY : 42.00 cp
WATER LOSS: 10.400 cc
SERIAL NUMBER: 12369
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DEAD IN 15 MINUTES
FINAL FLOW PERIOD WEAK BLOW - DEAD IN 5 MINUTES -
FLUSHED TOOL - NO HELP.

ORIGINAL

15-199-20211-00-00

DST REPORT (CONTINUED)

RELEASED

COMMENTS (CONTINUED)

CONFIDENTIAL

FROM CONFIDENTIAL

Comment

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	75.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.1410	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.1410	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2233.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	33.00	34.00
INITIAL SHUT-IN	45.00		466.00
FINAL FLOW	45.00	33.00	40.00
FINAL SHUT-IN	45.00		333.00

FINAL HYDROSTATIC PRESSURE: 2200.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2234.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	72.00	48.00
INITIAL SHUT-IN	45.00		462.00
FINAL FLOW	45.00	76.00	50.00
FINAL SHUT-IN	45.00		342.00

FINAL HYDROSTATIC PRESSURE: 2204.00

ORIGINAL

KCC

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CONFIDENTIAL 15-199-20211-00-00
RELEASED

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

CONFIDENTIAL

DATE : 11/27/93	TICKET : 20121
CUSTOMER : MURFIN DRILLING CO., INC	LEASE : NIKRBASH
WELL : #1-30 TEST: 1	GEOLOGIST: COVEY
ELEVATION: 3816 KB	FORMATION: MARMATON
SECTION : 30	TOWNSHIP : 15S
RANGE : 41W COUNTY: WALLACE	STATE : KS
GAUGE SN#: 11018 RANGE : 4425	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	72.00	72.00
5.00	52.00	-20.00
10.00	48.00	-4.00
15.00	48.00	0.00
20.00	48.00	0.00
25.00	48.00	0.00
30.00	48.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	50.00	50.00	12.67
6.00	52.00	2.00	6.83
9.00	54.00	2.00	4.89
12.00	56.00	2.00	3.92
15.00	58.00	2.00	3.33
18.00	82.00	24.00	2.94
21.00	123.00	41.00	2.67
24.00	173.00	50.00	2.46
27.00	226.00	53.00	2.30
30.00	267.00	41.00	2.17
33.00	318.00	51.00	2.06
36.00	353.00	35.00	1.97
39.00	398.00	45.00	1.90
42.00	430.00	32.00	1.83
45.00	462.00	32.00	1.78

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	76.00	76.00
5.00	58.00	-18.00
10.00	48.00	-10.00
15.00	48.00	0.00
20.00	49.00	1.00
25.00	49.00	0.00
30.00	49.00	0.00
35.00	49.00	0.00
40.00	49.00	0.00
45.00	50.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	50.00	50.00	21.00
6.00	51.00	1.00	11.00
9.00	53.00	2.00	7.67
12.00	54.00	1.00	6.00
15.00	56.00	2.00	5.00
18.00	58.00	2.00	4.33
21.00	78.00	20.00	3.86
24.00	112.00	34.00	3.50
27.00	142.00	30.00	3.22
30.00	164.00	22.00	3.00
33.00	200.00	36.00	2.82
36.00	267.00	67.00	2.67
39.00	300.00	33.00	2.54
42.00	321.00	21.00	2.43
45.00	342.00	21.00	2.33

ORIGINAL
API#15-199-2021-00-00

FORMATION

TEST

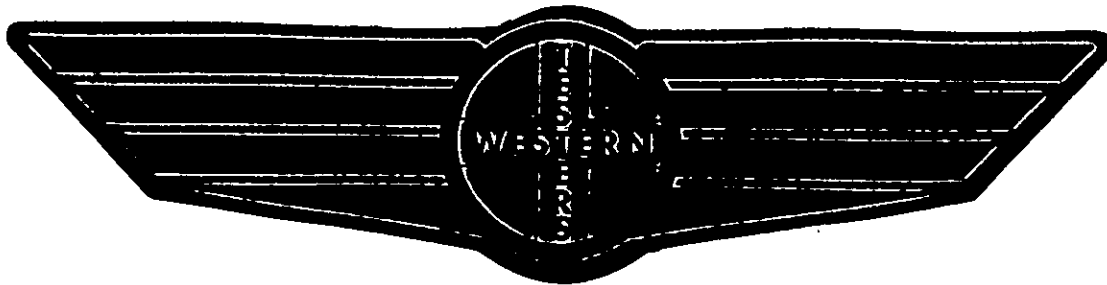
REPORT

CONFIDENTIAL

RELEASED

1 & 1495

FROM CONFIDENTIAL.



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY MURFIN DRILLING CO., INC. LEASE & WELL NO. #1-30 NIKRBASH SEC. 30 TWP. 15S RGF. 41W T13S NO. 2 DATE: 11/29/93

DST REPORT

GENERAL INFORMATION

DATE : 11/29/93
CUSTOMER : MURFIN DRILLING CO., INC
WELL : #1-30 TEST: 2
ELEVATION: 3816 KB
SECTION : 30
RANGE : 41W COUNTY: WALLACE
GAUGE SN#: 11018 RANGE : 4425
TICKET : 20122
LEASE : NIKRBASH
GEOLOGIST: COVEY
FORMATION: MORROW SAND
TOWNSHIP : 15S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4985.00 ft TO: 5020.00 ft TVD: 5020.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4988.0 ft 5017.0 ft
TEMPERATURE: 141.0
DRILL COLLAR LENGTH: 520.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH: 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 4439.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 26.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 35.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 4980.0 ft SIZE: 6.630 in
PACKER DEPTH: 4985.0 ft SIZE: 6.630 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 25
MUD TYPE : CHEMICAL VISCOSITY : 50.00 cp
WEIGHT : 9.300 ppg WATER LOSS: 7.000 cc
CHLORIDES : 3400 ppm
JARS-MAKE : WTC SERIAL NUMBER: 12369
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 20 MINUTES. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET IN 5 MINUTES.

DST REPORT (CONTINUED)

ORIGINAL

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	1300 FT GAS ABOVE FLUID
100.0	0.0	10.0	0.0	90.0	OIL SPECKED GAS CUT MUD
0.0	0.0	0.0	0.0	0.0	RW. 1.8 @ 70 DEGREES
0.0	0.0	0.0	0.0	0.0	CHLORIDES 4000 PPM

RATE INFORMATION

OIL VOLUME: 0.0000 STB	TOTAL FLOW TIME: 90.0000 min.
GAS VOLUME: 0.2640 SCF	AVERAGE OIL RATE: 0.0000 STB/D
MUD VOLUME: 0.4231 STB	AVERAGE WATER RATE: 0.0000 STB/D
WATER VOLUME: 0.0000 STB	
TOTAL FLUID : 0.4231 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2411.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	37.00	42.00
INITIAL SHUT-IN	60.00		816.00
FINAL FLOW	60.00	55.00	55.00
FINAL SHUT-IN	120.00		1030.00

FINAL HYDROSTATIC PRESSURE: 2386.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2428.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	78.00	45.00
INITIAL SHUT-IN	60.00		816.00
FINAL FLOW	60.00	83.00	67.00
FINAL SHUT-IN	120.00		1029.00

FINAL HYDROSTATIC PRESSURE: 2402.00

RELEASED

1 & 1995

FROM CONFIDENTIAL

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/29/93	TICKET : 20122
CUSTOMER : MURFIN DRILLING CO., INC	LEASE : NIKRBASH
WELL : #1-30 TEST: 2	GEOLOGIST: COVEY
ELEVATION: 3816 KB	FORMATION: MORROW SAND
SECTION : 30	TOWNSHIP : 15S
RANGE : 41W	STATE : KS
GAUGE SN#: 11018	CLOCK : 12
COUNTY: WALLACE	
RANGE : 4425	

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	78.00	78.00
5.00	52.00	-26.00
10.00	47.00	-5.00
15.00	44.00	-3.00
20.00	44.00	0.00
25.00	44.00	0.00
30.00	45.00	1.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	53.00	53.00	12.67
6.00	71.00	18.00	6.83
9.00	98.00	27.00	4.89
12.00	124.00	26.00	3.92
15.00	156.00	32.00	3.33
18.00	198.00	42.00	2.94
21.00	237.00	39.00	2.67
24.00	293.00	56.00	2.46
27.00	336.00	43.00	2.30
30.00	396.00	60.00	2.17
33.00	444.00	48.00	2.06
36.00	502.00	58.00	1.97
39.00	548.00	46.00	1.90
42.00	596.00	48.00	1.83
45.00	644.00	48.00	1.78
48.00	677.00	33.00	1.73
51.00	726.00	49.00	0.00
54.00	758.00	32.00	0.00
57.00	787.00	29.00	0.00

15-199-20211-00-00

PRESSURE TRANSIENT REPORT (CONTINUED)

ORIGINAL

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	816.00	29.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	83.00	83.00
5.00	64.00	-19.00
10.00	65.00	1.00
15.00	65.00	0.00
20.00	65.00	0.00
25.00	66.00	1.00
30.00	66.00	0.00
35.00	66.00	0.00
40.00	67.00	1.00
45.00	67.00	0.00
50.00	67.00	0.00
55.00	67.00	0.00
60.00	67.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	67.00	67.00	21.00
6.00	67.00	0.00	11.00
9.00	76.00	9.00	7.67
12.00	178.00	102.00	6.00
15.00	222.00	44.00	5.00
18.00	298.00	76.00	4.33
21.00	380.00	82.00	3.86
24.00	445.00	65.00	3.50
27.00	511.00	66.00	3.22
30.00	568.00	57.00	3.00
33.00	639.00	71.00	2.82
36.00	695.00	56.00	2.67
39.00	756.00	61.00	2.54
42.00	810.00	54.00	2.43
45.00	846.00	36.00	2.33
48.00	910.00	64.00	2.25

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Wichita, Kansas

PRESSURE TRANSIENT REPORT (CONTINUED)

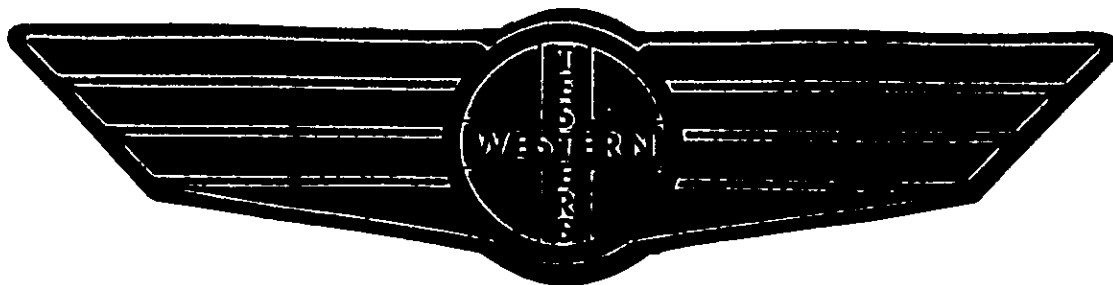
FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
51.00	932.00	22.00	2.18
54.00	954.00	22.00	2.11
57.00	970.00	16.00	2.05
60.00	988.00	18.00	2.00
63.00	998.00	10.00	1.95
66.00	1004.00	6.00	0.00
69.00	1008.00	4.00	0.00
72.00	1013.00	5.00	0.00
75.00	1017.00	4.00	0.00
78.00	1020.00	3.00	0.00
81.00	1020.00	0.00	0.00
84.00	1021.00	1.00	0.00
87.00	1021.00	0.00	0.00
90.00	1022.00	1.00	0.00
93.00	1022.00	0.00	0.00
96.00	1023.00	1.00	0.00
99.00	1024.00	1.00	0.00
102.00	1025.00	1.00	0.00
105.00	1025.00	0.00	0.00
108.00	1026.00	1.00	0.00
111.00	1027.00	1.00	0.00
114.00	1027.00	0.00	0.00
117.00	1028.00	1.00	0.00
120.00	1029.00	1.00	0.00

API#15-199-20211-00-00

ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

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WESTERN DRILLING CO.

COMPANY MURFIN DRILLING CO., INC. LEASE & WELL NO. #1-30 NIKRBASH SEC. 30 TWP. 15S RGE. 41W TEST NO. 3 DATE 11/29/93

DST REPORT

GENERAL INFORMATION

DATE : 11/29/93
CUSTOMER : MURFIN DRILLING CO., INC
WELL : #1-30 TEST: 3
ELEVATION: 3816 KB
SECTION : 30
RANGE : 41W COUNTY: WALLACE
GAUGE SN#: 11018 RANGE : 4425
TICKET : 20123
LEASE : NIKRBASH
GEOLOGIST: COVEY
FORMATION: MORROW SAND
TOWNSHIP : 15S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4982.00 ft TO: 5113.00 ft TVD: 5113.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4985.0 ft 5110.0 ft
TEMPERATURE: 144.0
DRILL COLLAR LENGTH: 520.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 4436.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 26.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 131.0 ft ANCHOR SIZE: 5.500 in
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH
PACKER DEPTH: 4977.0 ft SIZE: 6.630 in
PACKER DEPTH: 4982.0 ft SIZE: 6.630 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 25
MUD TYPE : CHEMICAL VISCOSITY : 53.00 cp
WEIGHT : 9.300 ppg WATER LOSS: 7.200 cc
CHLORIDES : 5400 ppm
JARS-MAKE : WTC SERIAL NUMBER: 12369
DID WELL FLOW?: NO REVERSED OUT?: YES

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 2 MINUTES. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET IN 20 MINUTES DECREASING TO 5

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DST REPORT (CONTINUED)

ORIGINAL

COMMENTS (CONTINUED)

Comment

INCHES BY END OF FLOW.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2300.0	1.0	20.0	54.0	25.0	GASSY MUDDY WTR W/SCUM OF
0.0	0.0	0.0	0.0	0.0	OIL THROUGHOUT
0.0	0.0	0.0	0.0	0.0	CHLORIDES 20000 PPM
0.0	0.0	0.0	0.0	0.0	RW .3 @ 70 DEGREES

RATE INFORMATION

OIL VOLUME:	0.2741	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	30.7832	SCF	AVERAGE OIL RATE:	6.3794	STB/D
MUD VOLUME:	6.8529	STB	AVERAGE WATER RATE:	344.4893	STB/D
WATER VOLUME:	14.8023	STB			
TOTAL FLUID :	21.9293	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2466.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	910.00	976.00
INITIAL SHUT-IN	45.00		1011.00
FINAL FLOW	60.00	1008.00	1011.00
FINAL SHUT-IN	90.00		1041.00

FINAL HYDROSTATIC PRESSURE: 2440.00

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DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2468.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	925.00	980.00
INITIAL SHUT-IN	45.00		1017.00
FINAL FLOW	60.00	1011.00	1032.00
FINAL SHUT-IN	90.00		1039.00

FINAL HYDROSTATIC PRESSURE: 2444.00

PRESSURE TRANSIENT REPORT

ORIGINAL

GENERAL INFORMATION

DATE	: 11/29/93	TICKET	: 20123
CUSTOMER	: MURFIN DRILLING CO., INC	LEASE	: NIKRBASH
WELL	: #1-30 TEST: 3	GEOLOGIST	: COVEY
ELEVATION	: 3816 KB	FORMATION	: MORROW SAND
SECTION	: 30	TOWNSHIP	: 15S
RANGE	: 41W COUNTY: WALLACE	STATE	: KS
GAUGE SN#	: 11018 RANGE : 4425	CLOCK	: 12

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	925.00	925.00
5.00	912.00	-13.00
10.00	914.00	2.00
15.00	922.00	8.00
20.00	940.00	18.00
25.00	962.00	22.00
30.00	980.00	18.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	982.00	982.00	12.67
6.00	984.00	2.00	6.83
9.00	985.00	1.00	4.89
12.00	986.00	1.00	3.92
15.00	991.00	5.00	3.33
18.00	993.00	2.00	2.94
21.00	997.00	4.00	2.67
24.00	1001.00	4.00	2.46
27.00	1003.00	2.00	2.30
30.00	1006.00	3.00	2.17
33.00	1008.00	2.00	2.06
36.00	1012.00	4.00	1.97
39.00	1014.00	2.00	1.90
42.00	1016.00	2.00	1.83
45.00	1017.00	1.00	1.78

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PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	1011.00	1011.00
5.00	1011.00	0.00
10.00	1013.00	2.00
15.00	1015.00	2.00
20.00	1016.00	1.00
25.00	1018.00	2.00
30.00	1021.00	3.00
35.00	1024.00	3.00
40.00	1026.00	2.00
45.00	1027.00	1.00
50.00	1030.00	3.00
55.00	1031.00	1.00
60.00	1032.00	1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1032.00	1032.00	21.00
6.00	1034.00	2.00	11.00
9.00	1035.00	1.00	7.67
12.00	1035.00	0.00	6.00
15.00	1035.00	0.00	5.00
18.00	1036.00	1.00	4.33
21.00	1036.00	0.00	3.86
24.00	1037.00	1.00	3.50
27.00	1038.00	1.00	3.22
30.00	1038.00	0.00	3.00
33.00	1039.00	1.00	2.82
36.00	1039.00	0.00	2.67
39.00	1039.00	0.00	2.54
42.00	1039.00	0.00	2.43
45.00	1039.00	0.00	2.33
48.00	1039.00	0.00	2.25
51.00	1039.00	0.00	2.18
54.00	1039.00	0.00	2.11
57.00	1039.00	0.00	2.05
60.00	1039.00	0.00	2.00
63.00	1039.00	0.00	1.95
66.00	1039.00	0.00	0.00
69.00	1039.00	0.00	0.00
72.00	1039.00	0.00	0.00
75.00	1039.00	0.00	0.00

15-199-20211-00-00

PRESSURE TRANSIENT REPORT (CONTINUED)

ORIGINAL

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
78.00	1039.00	0.00	0.00
81.00	1039.00	0.00	0.00
84.00	1039.00	0.00	0.00
87.00	1039.00	0.00	0.00
90.00	1039.00	0.00	0.00

RELEASED

11 & 1995

FROM CONFIDENTIAL

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

15-199-20211-00-00

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

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

5192

New

Date	11-23-93	Sec.	30	Twp.	15	Range	41	Called Out		On Location	8:30 AM	Job Start		Finish	11:30 AM
Lease	Alder Bash	Well No.	1-30			Location	Sharon Springs Sta. C.L.			County	Wallace	State	Kan		
Contractor	MurFin Dcgs Co. #25														
Type Job	Surface														
Hole Size	12 1/4			T.D.	390'										
Csg.	8 5/8			Depth	389'										
Tbg. Size				Depth											
Drill Pipe				Depth	ORIGINAL										
Tool				Depth											
Cement Left in Csg.				Shoe Joint											
Press Max.				Minimum											
Meas Line				Displace	✓										
Perf.															

Owner Same 8W-PN-U.S.
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.

Charge To MurFin Dcgs Co.
 Street 250 N. Water, St #300
 City Wichita State Kan 67202
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X Gus Schwartz

CEMENT

Amount Ordered	240 SKs			60/40 grad, 3%CC-2%bc
Consisting of	Common	144	SKs @ 6.85	986.40
	Poz. Mix	96	SKs @ 3.00	288.00
	Gel.	4	SKs @ 7.00	28.00
	Chloride	8	SKs @ 25.00	200.00
	Quickset			

EQUIPMENT

Okley No.	Cementer	Walt
Pumptrk 191	Helper	
Pumptrk No.	Cementer	
Pumptrk	Helper	
Bulktrk 305	Driver	Wayne
Bulktrk	Driver	

Handling	1.00 per SK	240.00
Mileage	4¢ per SK/mile	77 miles = 308.00
Sub Total		548.00
Total		2,453.60

DEPTH of Job

Reference:	Pumptruck	430.00
	8 5/8 Plus	42.00
	2.25 per mile	173.25
	39¢ per ft @ 300'	34.21
Sub Total		679.46
Tax		
Total		679.46

Remarks:

Cement Circ (5 BBL)

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Handwritten signature

CONSERVATION DIVISION
 Wichita, Kansas

3-2627, Russell, Kansas

793-5861, Great Bend, Kansas

15-199-20211-00-00
Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

4942

New

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
12-2-93	30	15 ^S	41 ^W	1:30pm	3:00pm	5:00pm	7:30pm
Lease	Well No.	Location		County	State		
Nikebaah	1-30	Sharon Springs Sto.C.L. 8W-1N		Waller	KS		

Contractor	Murf's Oils #25	
Type Job	PTA	
Hole Size	7 7/8	T.D. 5300
Csg.	Depth	
Tbg. Size	Depth	
Drill Pipe	4 1/2 16.6	Depth 2760
Tool	Depth	
Cement Left in Csg.	Shoe Joint	
Press Max.	Minimum	
Meas Line	Displace	
Perf.		

Owner Murf's Oils

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 Murf's Oils

Street 250 N. Water St #300

City Wichita State Kan 67202

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

Purchase Order No. _____

X Mrs Schwartz

CEMENT

Amount Ordered 200 sk 60/40 626cl 1/4" Celloflake

Consisting of			
Common	120 sk	0	6 ⁸⁵
Poz. Mix	80 sk	0	3 ⁰⁰
Gel.	7 ⁸⁵ sk	0	7 ⁰⁰
Chloride			
Quickset			
Celloflake	2 sk (50#)	0	1 ¹⁰
			55 ⁰⁰

Handling	1 ⁰⁰ per sk	200 ⁰⁰
Mileage	4¢ per sk mile	616 ⁰⁰
	77 miles	
Sub Total		4982 ⁰⁰
Total		

EQUIPMENT

Okley	No.	Cementer	Fitz
Pumptrk	300	Helper	Ferry
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	212	Driver	Steve
Bulktrk		Driver	

DEPTH of Job

Reference:	Pump Trk	525 ⁰⁰
	1 8 3/8 Dryhole Plug	21 ⁰⁰
	2 25 per mile	173 ²⁵
Sub Total		
Tax		
Total		719 ²⁵

Remarks:

25 sk @ 2760 15 sk in Rat Hole

100 sk @ 1755 10 sk in Mouse Hole

40 sk @ 440

10 sk @ 40

Floating Equipment _____

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DEC 17 1993