

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

API NO. 15- 15-071-20587 ~~CONFIDENTIAL~~
County Greeley
-W/2- NW - SE Sec. 2 Twp. 18S Rge. 43W

Operator: License # 30606

1980 Feet from (S) Line of Section

Name: Murfin Drilling Co., Inc.

2310 Feet from (E) 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 Coyote Well # 2

Purchaser: OXY USA

Field Name Moore-Johnson

Operator Contact Person: Larry M. Jack

Producing Formation Morrow

Phone () 267-3241

Elevation: Ground 3899 KB 3908

Contractor: Name: Murfin Drilling Co.

Total Depth 5280 PBD 5233

License: 30606

Amount of Surface Pipe Set and Cemented at 353 Feet

Wellsite Geologist: Scott Banks

Multiple Stage Cementing Collar Used? Yes No

Designate Type of Completion:
 New Well Re-Entry Workover

If yes, show depth set 2005 Feet

If Alternate II completion, cement circulated from 2005

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

feet depth to surface w/ 450 sx cmt.

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

Drilling Fluid Management Plan 7-6-93
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 9000 ppm Fluid volume 2500 bbls

Well Name: _____

Dewatering method used evaporation

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: _____

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

Operator Name _____

Lease Name _____ License No. 9888

5/15/93 5/25/93 6/07/93
Spud Date Date Reached TD Completion Date

Quarter Sec. Twp. S Rng. 4
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 Larry M. Jack

Title Larry M. Jack, Prod. Mgr. Date 6/25/93

Subscribed and sworn to before me this 25 day of June, 19 93.

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

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

RECEIVED
OFFICE USE ONLY
BY/RE COPY LETTER OF CONFIDENTIALITY ATTACHED
C 7 Wireline Log Received
C 1 Geologist Report Received
16-28-93
DISTRIBUTION
KCC Kansas _____ SVD/Rep _____ NGPA
Wires _____ Plug _____ Other (Specify) _____

Operator Name Murfin Drilling Co., Inc. Lease Name Coyote Well # 2

Sec. 2 Twp. 18S Rge. 43W
 East
 West

County Greeley

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

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	see attached		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run: DSI/PDS/BCA	see attached			

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	24#	353	60/40 Poz	200	2%gel, 3% cc
Production	7 7/8	5 1/2	15.5#	5279	Class A	200	10% salt, .3% FT.50, 2% CD-31
					Lite Common	400	
						50	

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4	5148-58	none

TUBING RECORD	Size <u>2 7/8</u>	Set At <u>5199</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SVD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
<u>6/9/93</u>				
Estimated Production Per 24 Hours	Oil Bbls. <u>200</u>	Gas Mcf <u>250</u>	Water Bbls. <u>0</u>	Gas-Oil Ratio <u></u> Gravity <u></u>

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

Russell, Kansas
61, Great Bend, Kansas

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

ALLIED CEMENTING CO., INC.

5002

Home Office P. O. Box 31

Russell, Kansas 67665

Date <i>5-15-93</i>	Sec. <i>2</i>	Twp. <i>18^s</i>	Range <i>43^v</i>	Called Out <i>8:00 pm</i>	On Location <i>10:00 pm</i>	Job Start <i>11:00 pm</i>	Finish <i>11:30 pm</i>
Lease <i>Coyote</i>	Well No. <i>2</i>	Location <i>State Line @ Tribune 3N-3E-N1/4</i>			County <i>Greely</i>	State <i>Ks</i>	

Contractor <i>Martin #24</i>	
Type Job <i>Surface</i>	
Hole Size <i>12 1/4</i>	T.D. <i>353</i>
Csg. <i>8 5/8</i>	Depth <i>353</i>
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg. <i>15</i>	Shoe Joint <i>0</i>
Press Max.	Minimum
Meas Line	Displace <i>2 1/2 bbls</i>
Perf.	

EQUIPMENT

<i>Okley</i>	No.	Cement	<i>Fitz</i>
<i>Pumptrk</i>	<i>300</i>	Helper	<i>Terry</i>
	No.	Cement	
<i>Pumptrk</i>		Helper	
		Driver	<i>Steve</i>
<i>Bulktrk</i>	<i>315</i>	Driver	

DEPTH of Job <i>353</i>		
Reference: <i>1</i>	<i>8 5/8 Surface Plug</i>	<i>42.00</i>
	<i>Pumptruck</i>	<i>430.00</i>
	<i>225 per mile</i>	<i>225.00</i>
	Sub Total	
	Tax	
	Total	<i>697.00</i>

Remarks: *Mix Cement - Release Plug + Displace
To Within 15ft from bottom
Cement Did Circulate*

Owner *Martin 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 *Martin Oils 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 Martin Oils*

CEMENT

Amount Ordered	<i>200 sk 60/40 P₂ 32cc 226.1</i>		
Consisting of			
Common	<i>120 sk</i>	<i>2</i>	<i>5.75</i> <i>690.00</i>
Poz. Mix	<i>80 sk</i>	<i>2</i>	<i>3.00</i> <i>240.00</i>
Gel.	<i>3 1/2 sk</i>	<i>2</i>	<i>7.00</i> <i>28.00</i>
Chloride	<i>6 sk</i>	<i>2</i>	<i>25.00</i> <i>150.00</i>
Quickset			

Handling <i>1.00 per sk</i>	<i>200.00</i>
Mileage <i>4¢ per sk 1 mile</i>	<i>800.00</i>
<i>100 mile</i>	
Sub Total	<i>2,108.00</i>
Total	

Floating Equipment

RECEIVED
STATE CORPORATIONS COMMISSION
JUN 28 1993
CONSERVATION DIVISION
Wichita Kansas

and, Kansas

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

4987

Home Office P. O. Box 31

Russell, Kansas 67665

Date	5-25-93	Sec	2	Twp.	18	Range	43	Called Out	2:45 AM	On Location	4:30 AM	Job Start	5:30 PM	Finish	6:20 PM	
Lease	Q note	Well No.	2	Location				Triune - State line rd-3N-2E	County	Greene	State	Kan				

Contractor	Mur-in. Dril #24
Type Job	Two Stage (top stage)
Hole Size	7 7/8 T.D.
Csg.	5 1/2 15.5" Depth 2005
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg.	Shoe Joint
Press Max.	Minimum
Meas Line	Displace 48
Perf.	

Owner	Mur-in. Dril
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	Mur-in. Dril
Street	250 N. Water Suite 300
City	Wichita State Kansas
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	<i>[Signature]</i>
CEMENT	
Amount Ordered	400 SK Lite Cement
Consisting of 50 SK Common	

EQUIPMENT

Pumptrk	No. 300	Cementer	Ken
		Helper	Terry
Pumptrk	No.	Cementer	
		Helper	
		Driver	
Bulktrk	305		Fitz
Bulktrk	212	Driver	Walt

Common	50 SKs @ 6.85	342.50
Lite	400 SKs @ 5.85	2,340.00
Gel.		
Chloride		
Quickset		
Handling	1.00 per SK	450.00
Mileage	4¢ per SK/mile 100 miles	1,800.00
Sub Total		4,932.50
Total		

DEPTH of Job	2005	525.00
Reference:	Pumptruck	1170.00
	2.25 per mile	
		2
	Sub Total	
	Tax	
	Total	525.00

Remarks: Stage collar set @ 2005. Hook up to pump truck. Mix 400 SK Lite Cement followed with 50 SK Common. Displace pipe to stage collar closed at 1500 feet. Circulated 75 SK Lite Cement into pit.

RECEIVED
STATE OF KANSAS
JUN 28 1993
CONSERVATION DIVISION
Wichita, Kansas

Kansas
Great Bend, Kansas

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

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

4986

NEW

Date	5-25-93	Sec.	2	Twp.	18	Range	43	Called Out	2:45 AM	On Location	4:30 AM	Job Start	11:00 AM	Finish	1:15 PM
Lease	State	Well No.	2	Location				Tribune - Stateline Rd 34-EE	County		Greecley	State		KS.	
Contractor	Murkin Drilling #24														

Type Job	Two stage (Bottom stage)		
Hole Size	7 7/8"	T.D.	5270
Csg.	5 1/2" 15.5'	Depth	5277
Tbg. Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	4 1/2 st.	Shoe Joint	4 1/2 st.
Press Max.		Minimum	
Meas Line		Displace	12.5/bbls
Perf.	RELEASED		

Owner Murkin Drilling
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 Murkin Drilling
Street 250 N. Water Suite 300
City Wichita State Kansas
The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. [Signature]
X

EQUIPMENT APR 1 1996

No.	Cementer	FROM CONFIDENTIAL
Pumptrk 300	Helper Terry	
No.	Cementer	
Pumptrk	Helper	
	Driver	
Bulktrk 305		
Bulktrk 315	Driver	Fitz
212		

Amount Ordered	500 gal. mud sweep	CEMENT
Consisting of	200 SK "A" 13 to FL 50, 12 to CD 31	
Common	200 SKs @ 6.85	1,370.00
FL-50	#57 @ 8.17	465.00
Chloride	CD-31 #38 @ 4.25	161.50
Salt	19 SKs @ 5.25	99.75
Mud Sweep	500 gal @ 1.80	900.00

DEPTH of Job	5277 st.
Reference:	Pumptruck 1,170.00
	2.25 per mile 225.00
Sub Total	
Tax	
Total	1,395.00

Handling	1.00 per SK	200.00
Mileage	4¢ per SK/mile	800.00
100 miles		
Sub Total		3,996.00
Total		

Remarks:
Hookup to mud pump & circulate for 1 Hr. Hookup to truck
and pump 500 gal mud sweep mid depth cement, Displace
with 75 bbls of fresh water & 50 bbls of mud. Pump 100
to top plug line @ 1200 ft. Pump stage cement
with 450 bbls.

Floating Equipment
1 - Guide shoe RECEIVED
1 - Inserter STATE COMMISSION 125.00
2 - Cement Kgs. JUN 28 1993 250.00
3 - Cement Kgs. CONSERVATION 504.00
1 - [unclear] - 3,065.00
40 ft. [unclear] - 456.00

Total = 4,593.00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-071-20587

ORIGINAL

Drill-Stem Test Data

Well Name COYOTE #2 Test No. 1 Date 5/22/93
 Company MURFIN/AXEN/DCX Zone MORROW
 Address 250 N WATER SWT #300 WICHITA KS 67202 Elevation 3898
 Co. Rep./Geo. SCOTT BANKS Cont. MURFIN #24 Est. Ft. of Pay 19
 Location: Sec. 2 Twp. 18S Rge. 43W Co. GREELEY State KS

Interval Tested 5038-5170 Drill Pipe Size 4.5" XH
 Anchor Length 132 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 5033 Drill Collar - 2.25 Ft. Run 356
 Bottom Packer Depth 5038 Mud Wt. _____ lb/Gal.
 Total Depth 5170 Viscosity 50 Filtrate 8.0

Tool Open @ 6:33 PM Initial Blow GOOD BLOW OFF BOTTOM IN 1 MINUTE
GAS TO SURFACE IN 13 MINUTES
 Final Blow GOOD BLOW OFF BOTTOM IN 15 SECONDS
7.88 MCF/DAY

Recovery - Total Feet 1525 Flush Tool? NO RELEASED

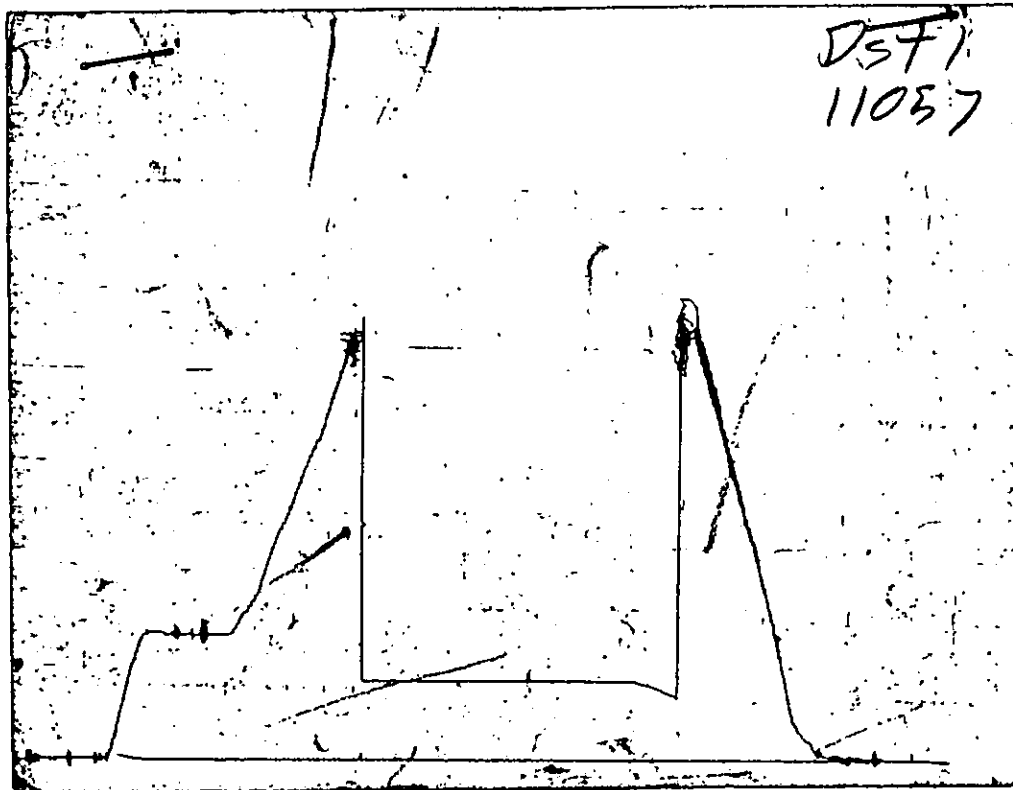
Rec. 3483 Feet of GAS IN PIPE
 Rec. 1525 Feet of CLEAN GASSY OIL 20%GAS/80%OIL APR 8 1993
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____ FROM CONFIDENTIAL
 Rec. _____ Feet of _____

BHT 120 °F Gravity 37 °API @ 70 °F Corrected Gravity 36 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2506.7 PSI AK1 Recorder No. 13308 Range 4700
 (B) First Initial Flow Pressure 386.9 PSI @ (depth) 5040 w / Clock No. 22992
 (C) First Final Flow Pressure 460.1 PSI AK1 Recorder No. 11057 Range 4500
 (D) Initial Shut-in Pressure 468.4 PSI @ (depth) 5165 w / Clock No. 7452
 (E) Second Initial Flow Pressure 464.9 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 468.4 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 468.4 PSI Initial Opening JUN 28 1993 Final Flow 60
 (H) Final Hydrostatic Mud 2479.5 PSI Initial Shut-in _____ Final Shut-in 90

Our Representative MARK HERSKOWITZ

RECEIVED
 STATE COMMISSION
 JUN 28 1993
 WICHITA, KANSAS



This is an actual photograph of recorder chart

RELEASED

APR 8 1993

FROM CONFIDENTIAL.

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2490	2506.7
(B) FIRST INITIAL FLOW PRESSURE	358	386.9
(C) FIRST FINAL FLOW PRESSURE	448	460.1
(D) INITIAL CLOSED-IN PRESSURE	448	468.4
(E) SECOND INITIAL FLOW PRESSURE	448	464.9
(F) SECOND FINAL FLOW PRESSURE	448	468.4
(G) FINAL CLOSED-IN PRESSURE	448	468.4
(H) FINAL HYDROSTATIC MUD	2468	2479.5

RECEIVED
STATE CORPORATION COMMISSION
JUN 28 1993
CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

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

MURFIN/AXEN/DCX

COYOTE #2

DST 1

2

18S

43W

GREELEY KS

ELEVATION:	3898	KB	EST. PAY	19	FT
DATUM:	-5041		ZONE TESTED:	MORROW	
TEST INTERVAL:	5038-5170		TIME INTERVALS:	30-60-60-90	
RECORDER DEPTH:	5040		VISCOSITY:	4.53	CP
BOTTOM HOLE TEMP:	120		HOLE SIZE:	7.875	IN

CUBIC FEET OF GAS IN PIPE:	278				
TOTAL FEET OF RECOVERY:	1525.00		CORRECTED PIPE FILLUP:	1279.781	
TOTAL BARRELS OF RECOVERY:	18.36		CORR. BARRELS OF RECOVERY:	14.880	BBL
BARRELS IN DRILL PIPE:	16.62		API GRAVITY:	36	
BARRELS IN WEIGHT PIPE:	0.00		FLUID GRADIENT:	0.366	
BARRELS IN DRILL COLLARS:	1.74				
GAS OIL RATIO:	15.14		CU.FT/BBL		
BUBBLE POINT PRESSURE:	121				
UNCORRECTED INITIAL PRODUCTION:				293.82	BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:				238.08	BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:				209.539	

INITIAL SLOPE	1.9928548	PSI/CYCL	FINAL SLOPE	0.1	PSI/CYCLE
INITIAL P*	468.75	PSI	FINAL P*	468.4	PSI

TRANSMISSIBILITY	387121.20	(MD.-FT./CP.)
PERMEABILITY	92364.79	(MD.)
INDICATED FLOW CAPACITY	1754930.98	(MD.FT)
PRODUCTIVITY INDEX	437.45	(BARREL/DAY/PSI)
DAMAGE RATIO	0.00	
RADIUS OF INVESTIGATION	2883.20	(FT.)
POTENTIOMETRIC SURFACE	-3953.78	(FT.)
DRAWDOWN FACTOR	0.075	(%)

RECEIVED
STATE GEOLOGICAL COMMISSION

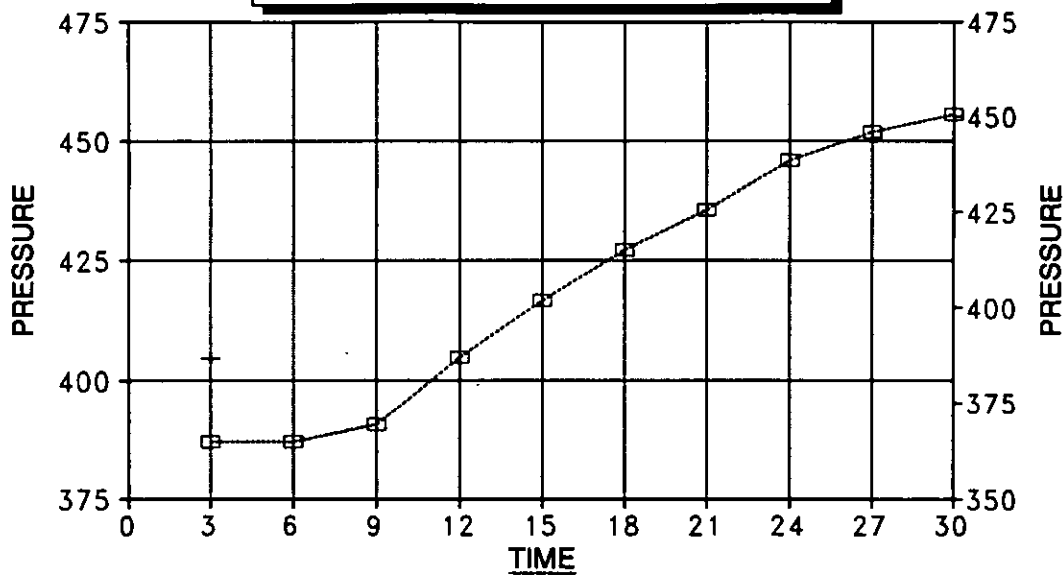
JUN 28 1993

CONSERVATION DIVISION
Wichita Kansas

DELTA T DELTA P

FINAL FLOW / DST #1

0.200



COYOTE #2

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

209.539

RECEIVED
STATE CORPORATION COMMISSION

JUN 28 1993

CONSERVATION DIVISION
Wichita Kansas

INITIAL FLOW

RECORDER #13308

DST # 1

TIME(MIN)	PRESSURE	<>PRESSURE
3	386.9	386.9
6	386.9	0.0
9	390.4	3.5
12	404.6	14.2
15	416.5	11.9
18	427.1	10.6
21	435.4	8.3
24	445.8	10.4
27	451.9	6.1
30	455.4	3.5
33	460.1	4.7

FINAL FLOW

RECORDER #13308

DST # 1

TIME(MIN)	PRESSURE	<> PRESSURE
3	464.9	464.9
6	467.2	2.3
9	468.4	1.2
12	468.4	0.0
15	468.4	0.0
18	468.4	0.0
21	468.4	0.0
24	468.4	0.0
27	468.4	0.0
30	468.4	0.0
33	468.4	0.0
36	468.4	0.0
39	468.4	0.0
42	468.4	0.0
45	468.4	0.0
48	468.4	0.0
51	468.4	0.0
54	468.4	0.0
57	468.4	0.0
60	468.4	0.0

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JUN 28 1993

CONSERVATION DIVISION
Wichita Kansas

COYOTE #2
INITIAL

DST #1
SHUTIN
30 INITIAL FLOW TIME

SLOPE 2.0 PSI/CYCLE
P* 468.75 PSI

		Log <>			
TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T	
	3	464.9	1.041	464.9	11
X	6	467.2	0.778	2.3	6
	9	468.4	0.637	1.2	4
	12	468.4	0.544	0.0	4
	15	468.4	0.477	0.0	3
	18	468.4	0.426	0.0	3
	21	468.4	0.385	0.0	2
	24	468.4	0.352	0.0	2
	27	468.4	0.325	0.0	2
	30	468.4	0.301	0.0	2
	33	468.4	0.281	0.0	2
	36	468.4	0.263	0.0	2
	39	468.4	0.248	0.0	2
	42	468.4	0.234	0.0	2
	45	468.4	0.222	0.0	2
	48	468.4	0.211	0.0	2
	51	468.4	0.201	0.0	2
	54	468.4	0.192	0.0	2
	57	468.4	0.184	0.0	2
X	60	468.4	0.176	0.0	2

COYOTE #2
FINAL

DST #1
SHUTIN
90 TOTAL FLOW TIME

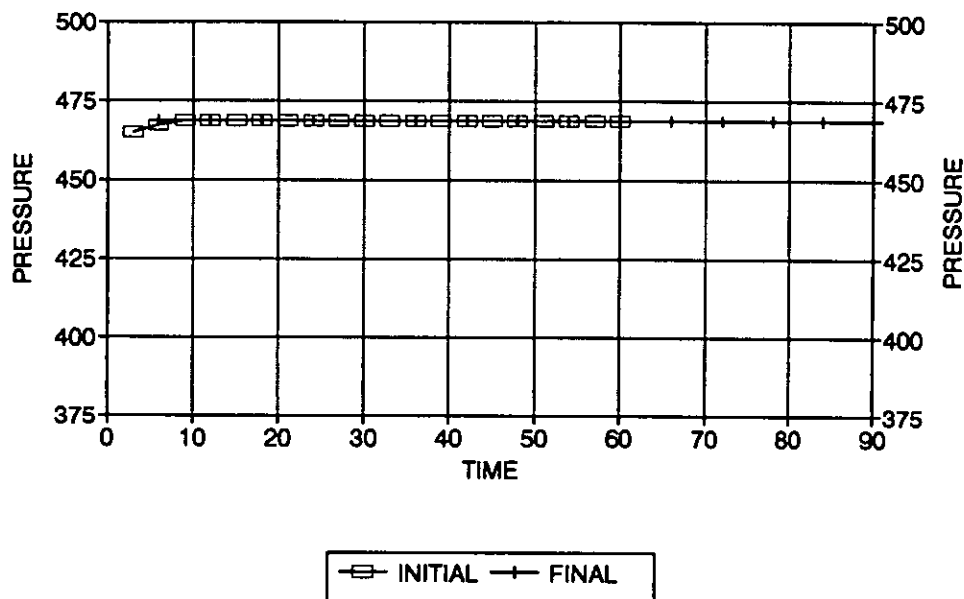
SLOPE 0.0 PSI/CYCLE
P* 468.4 PSI

		Log <>			
	Pws (psi)	Horn T	PRESSURE	Horn T	
X	6	468.4	1.204	468.4	16
	12	468.4	0.929	0.0	9
	18	468.4	0.778	0.0	6
	24	468.4	0.677	0.0	5
	30	468.4	0.602	0.0	4
	36	468.4	0.544	0.0	4
	42	468.4	0.497	0.0	3
	48	468.4	0.459	0.0	3
	54	468.4	0.426	0.0	3
	60	468.4	0.398	0.0	3
	66	468.4	0.374	0.0	2
	72	468.4	0.352	0.0	2
	78	468.4	0.333	0.0	2
	84	468.4	0.316	0.0	2
X	90	468.4	0.301	0.0	2

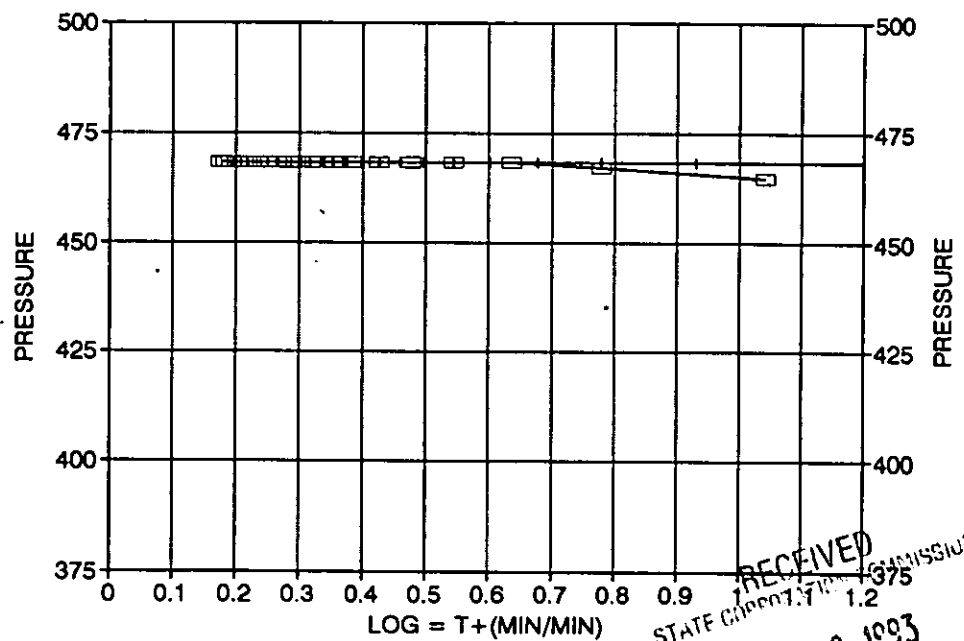
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JUN 28 1993
REGISTRATION DIVISION
M-1575

COYOTE #2 / DST #1 DELTA T DELTA P

ORIGINAL



HORNER PLOT



RECEIVED
STATE GEOLOGICAL COMMISSION
JUN 28 1993
CONSERVATION DIVISION
Wichita, Kansas

GAS VOLUME REPORT

ORIGINAL

MURFIN/AXEN/DCX

COYOTE #2

DST # 1

MIN	INCHES	ORIFICE	MCF/D	MIN	INCHES	ORIFICE	MCF/D
	WATER				WATER		
5	6	1	63.3	1	8	1.25	4.76
10	4	1	51.6	5	16	1.25	6.72
15	2	1	36.5	10	20	1.25	7.51
20	30	0.5	34.3	15	20	1.25	7.51
25	24	0.5	30.7	20	20	1.25	7.51
30	18	0.5	26.6	25	21	1.25	7.69
				30	22	1.25	7.88
				35	22	1.25	7.88
				40	22	1.25	7.88
				45	22	1.25	7.88
				50	22	1.25	7.88
				55	22	1.25	7.88
				60	22	1.25	7.88

Remarks: GAS TO SURFACE IN 13 MINUTES

RECEIVED
STATE CORPORATION COMMISSION
JUN 28 1993
CONSERVATION DIVISION
Wichita Kansas

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 5798

Date: 5/22/93

Company: MURFIN/AXEN/DCX

Lease: COYOTE #2

Test No.: 1

County: GREELEY

Sec.: 2

Twp.: 18S

Rng.: 43W

SAMPLER RECOVERY

Gas 2.50 CF

Oil 1375

Mud

Water

Other

Pressure 225

TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 7000

Resistivity ohms@ F

Viscosity 50

Mud Wt. 9.3

Filtrate 8.0

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

CALCULATED RECOVERY ANALYSIS

DST

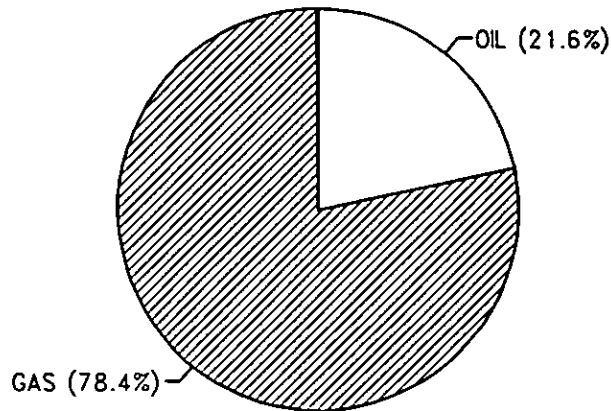
1

TICKET #

5798

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	3483	100	3483		0		0		0
PIPE 2	1169	20	233.8	80	935.2		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
WEIGHT 1			0		0		0		0
PIPE 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
DRILL 1	356	20	71.2	80	284.8		0		0
COLLAR 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	5008		3768		1220		0		0

		HRS OPEN	BBL/DAY
BBL OIL=	14.691216	*	1.5 235.05946
BBL WATER=	0	*	0
BBL MUD=	0		
BBL GAS =	53.201064		





ORIGINAL

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

EXTENDED NATURAL GAS ANALYSIS

COMPANY NAME: MURFIN DRILLING CO LAB# 9315923
 SAMPLE ID: COYOTE 2 / DST-1 / MORROW FORMATION / TD 5038-5170
 SETT #: N/A
 COUNTY: GREELEY LEGAL LOCATION: 2-18S-43W
 DATE SAMPLED: N/A 0 SAMPLER: TRILOBITE
 SAMPLE PRESSURE: N/A TEMPERATURE (F): N/A
 DATE ANALYZED: MAY 26 1993
 QUALITY CONTROL DATE: MAY 26 1993

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

HYDROCARBONS	MOLAL%	LIQUID VOLUME%	BTU AMOUNT	GPM
METHANE	35.52	37.77	357.63	0
ETHANE	6.26	10.51	110.43	0
PROPANE	4.95	9.56	124.16	1.36
ISO-BUTANE	.82	1.69	26.58	.27
NORMAL-BUTANE	1.75	3.46	56.91	.55
ISO-PENTANE	.53	1.22	21.14	.19
NORMAL-PENTANE	.52	1.18	20.78	.19
3-METHYLPENTANE	*			
2,3-DIMETHYLBUTANE	*			
2-METHYLPENTANE	*			
CYCLOPENTANE	*			
NORMAL HEXANE	*			
HEXANES+	.8	2.08	40.4	.35
NITROGEN	46.25	31.97	0	0
OXYGEN	1.8	1	0	0
CARBON DIOXIDE	.1	.11	0	0
HELIUM	.7	.45	0	0
HYDROGEN	TRACE (<.01)			
TOTALS*****	100	100	758.03	2.91

BTU/FT³ DRY (IDEAL GROSS): 758.03
 BTU/FT³ SATURATED (IDEAL GROSS): 745.64
 IDEAL SPECIFIC GRAVITY: .91
 COMPRESSIBILITY: .9981
 GPM: 2.91
 *=COMBINED WITH HEXANES+

RECEIVED
STATE PROBATION COMMISSION
JUN 28 1993
CONSERVATION DIVISION
Wichita, Kansas

RESPECTFULLY SUBMITTED
Richard Johnson
PRIORITY ANALYTICAL LAB

NOTE: VERY Low Volume of gas
in cylinder. Oxygen indicates
atmospheric contamination.
Analysis may not be accurate.

ORIGINAL

Test Ticket

No 5798

Well Name & No. Coyote 2nd Test No. 1 Date 5-22-93
 Company MURFIN / AVEN / PCX Zone Tested MORROW
 Address 252 N WATER ST #300 WICHITA Elevation _____
 Co. Rep./Geo. SCOTT BONKS Cont. MURFIN Rig 24 Est. Ft. of Pay 19
 Location: Sec. 2 Twp. 18S Rge. 43W Co. GREELEY State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 5038 - 5170 Drill Pipe Size 4 1/2 X H
 Anchor Length 132 Top Choke - 1" _____ Bottom Choke - 1/4" _____
 Top Packer Depth 5033 Hole Size - 7 7/8" _____ Rubber Size - 6 3/4" _____
 Bottom Packer Depth 5038 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Total Depth 5170 Drill Collar - 2.25 Ft. Run 350
 Mud Wt. 9.3 LCM lb/gal Viscosity 50 Filtrate 8.0
 Tool Open @ 6:33 PM Initial Blow Good Blow OFF BOTTOM 1 MIN
Gas to surface in 13 MIN

Final Blow Good Blow OFF BOTTOM 15 SEC
22" TO WATER ON 1/4" ORIFICE = 7.88 MCF/DAY
 Recovery - Total Feet 1525 Feet of Gas in Pipe 3483 Flush Tool? _____

Rec.	Feet Of	% gas	% oil	% water	% mud
<u>1525</u>	<u>C GAS 0.1</u>	<u>20%</u>	<u>80%</u>		
_____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
_____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
_____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
_____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____

BHT 120 °F Gravity 37 °API @ 70 °F Corrected Gravity 36 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2490 PSI AK1 Recorder No. 13308 Range 4700
 (B) First Initial Flow Pressure 358 PSI @ (depth) 5040 w/Clock No. 22992
 (C) First Final Flow Pressure 448 PSI AK1 Recorder No. 11057 Range 4500
 (D) Initial Shut-in Pressure 448 PSI @ (depth) 5165 w/Clock No. 7452
 (E) Second Initial Flow Pressure 448 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 448 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 448 PSI Initial Opening 30 Test 700
 (H) Final Hydrostatic Mud 2468 PSI Initial Shut-in 60 Jars 200

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

Approved By [Signature]
 Our Representative [Signature]

RECEIVED
 STATE OF KANSAS
 Circ. Sub 3500
 Sampler 200
 Extra Packer _____
 Other eval 50
 TOTAL PRICE \$ 1200