

ORIGINAL

15009.24451.0000

SIDE ONE

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

Operator: License # 5652Name: Mustang Oil & Gas CorporationAddress P.O. Box 1609City/State/Zip Great Bend, KS 67530Purchaser: KochOperator Contact Person: J.P. MeroneyPhone (316) 792-7323Contractor: Name: Woodman - IanittiLicense: 5122Wellsite Geologist: Arden Ratzlaff

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover☒ Oil ☐ SWD ☐ Temp. Abd. Wichita, Kansas☐ Gas ☐ Inj ☐ Delayed Comp.☐ Dry ☐ Other (Core, Water Supply, etc.)

If OWD: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

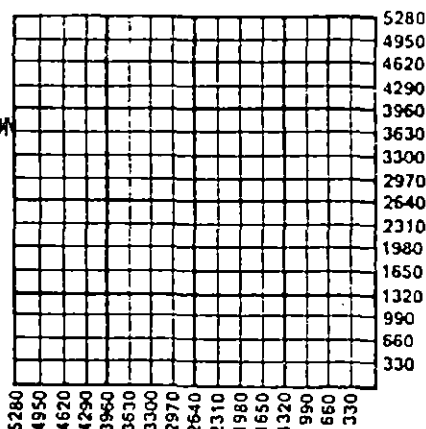
Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable12-6-90 12-12-90 1-15-91

Spud Date Date Reached TD Completion Date

API NO. 15- 009-24,451County BartonC W/2 SW Sec. 8 Twp. 20S Rge. 11 ☒ East ☒ West1320 Ft. North from Southeast Corner of Section4620 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name Bertha Howard Well # 8Field Name MarchandProducing Formation LansingElevation: Ground 1777 KB 1782Total Depth 3390 PBTD 3180Amount of Surface Pipe Set and Cemented at 666 Feet:Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

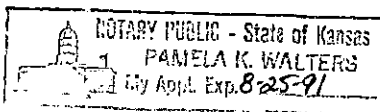
If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ SX -mt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 J.P. MeroneyTitle Senior Vice President Date 3/1/91Subscribed and sworn to before me this 1st day of March, 19 91.Notary Public Pamela K. WaltersDate Commission Expires August 25, 1991

K.C.C. OFFICE USE ONLY		
F	☐ Letter of Confidentiality Attached	
C	☒ Wireline Log Received	
C	☐ Drillers Timelog Received	
Distribution		
☒ KCC	☐ SWD/Rep	☐ NGPA
☐ KGS	☐ Plug	☐ Other (Specify)

Form ACO-1 (7-89)

P1

SIDE TWO

Operator Name Mustang Oil & Gas Corporation Lease Name Bertha Howard Well # 8
 Sec. 8 Twp. 20SRge. 11 ☐ East ☒ West
 County Barton

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.)

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Topeka	2641	2905
Lansing	3052	3266
Arbuckle	3292	3390

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
Surfcae	12 1/4	8 5/8	24	666	60/40 POZ	300	2% gel, 3% CaCl ₂
Production	7 7/8	5 1/2	14	3389	60/40 POZ	250	2% Gel, 10% Salt 6#/sx Gilsonite

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3 SPF	3120' - 3124'	300 gals 15% FE	3120' - 3124'
		1200 gals 15% SGA	3120' - 3124'
3 SPF	3072' - 3074'	250 gals 15% FE	3072' - 3074'
		750 gals 15% SGA	

TUBING RECORD	Size	Set At	Packer At	Liner Run	☐ Yes ☒ No
	2 7/8	3142	---		
Date of First Production	Producing Method	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)			
1-15-91					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	50	200	30		37

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

☐ Vented ☒ Sold ☐ Used on Lease
 (If vented, submit ACO-18.)

☐ Open Hole ☒ Perforation ☐ Dually Completed ☐ Commingled

☐ Other (Specify) _____

3120' - 3124'
 3072' - 3074'

ORIGINAL

Date 12-6-9 - 12-11-90

Company MUSTANG OIL & GAS Corp.Lease B- HOWARDWell No. #8Legal Description C-W/2 8-20-14W BARTON Co. KANSASWell Depth 3390'

SURFACE INFORMATION

Depth Set 666' Size and Weight of Casing 8 5/8 X 23# CASINGNumber of Sacks 300 Type of Cement 60/40 Poz-mixAdditives in Cement 3% C.C. 2% GelCementing Company Allied Did Circ P.d. @ 5:00 A.M. 12-7-90

IF CASING IS RUN

Depth Set 3389' Size and Weight of Casing 5 1/2 X 14# CASINGNumber of Sacks 250 Type of Cement 60/40 Poz-mixAdditives in Cement 4% C.C.Cementing Company B.T. Service's Job Complete 4:30 P.M. 12-12-90Plugged Rat Hole w/ 15 Sack

IF WELL IS PLUGGED

Depth of Each Plug and Number of Sacks on Each _____

Type of Cement _____

Cement Additives _____

Cementing Company _____

RECEIVED
STATE CORPORATION COMMISSION

MAR 13 1991

CONSERVATION DIVISION
Wichita, Kansas

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

15.009.24451.0000
Phone Plainville 913-434-
Phone Ness City 913-798-38-

ORIGINAL

ALLIED CEMENTING CO., INC.

No. 7344

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	12-6-90	Sec.	8	Twp.	20	Range	11	Called Out	6:30 P.M.	On Location	9:30 P.M.	Job Start	4:00 A.M.	Finish	5:00 A.M.
Lease	B. Howard	Well No.	#8	Location	Ellinwood	Location			across Bridge 1E, 1/2S, E into	County	Barton	State	Ks		
Contractor	Woodman-Law, H. A.														
Type Job	Surface														
Hole Size	12 1/4"					T.D. 670'									
Csg.	8 5/8"					Depth 666'									
Tbg. Size						Depth									
Drill Pipe						Depth MAR 13 1991									
Tool						Depth CONSERVATION DIVISION									
Cement Left in Csg.	15'					Shoe Joint Wichita, Kansas									
Press Max.	1					Minimum									
Meas Line	✓					Displace 41 1/2 bbl.									
Perf.															

EQUIPMENT

#	No.	Cementer	Tim
Pumptrk	181	Helper	Cary
#	No.	Cementer	
Pumptrk		Helper	
#	No.	Driver	Doane
Bulktrk	101	Driver	

DEPTH of Job

Reference:	Pumptrk Charge	380.00
12	Pumptrk Mileage	24.00
1	8 5/8" Wooden Plug	42.00
	366' at .39	142.74
	Total	588.74

Remarks:

Raw 666' of 8 5/8" Csg. Mixed
300 SKS 60/40 3+2. Pumped Plug
to 651' with fresh water.
Cement did circulate.

Allied Cementing Co. Inc. - 10/10/91

By Tim Dickson

(old bid)

Owner Same
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 Mustang Companies Inc
Street P O Box 1609
City Great Bend State Ks 67530
The above was done to satisfaction and supervision of owner agent or
contractor

Purchase Order No.

X

CEMENT

Amount
Ordered 300 SKS 60/40 3+2, 290 cc

Consisting of

Common	180	5.25	945.00
Poz. Mix	120	2.25	270.00
Gel.	6	6.75	N/C
Chloride	9	21.00	189.00
Quickset			

Sales Tax

Handling	300	1.00	300.00
Mileage	12		108.00

Sub Total

Total

Floating Equipment

TOTAL \$ 2400.74

Disc - 480.15

\$ 1920.59

OVER

ARED

20.25

CODE

HECK NO

ITE PAT

SERVICES

15.009.24451.0000

INVOICE DATE
12/12/90

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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PAGE 1	INVOICE NO. ZT021
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MUSTANG DRILLING
P.O. DRAWER 1609
GREAT BEND

KS 67530

AUTHORIZED BY 610079

PURCH. ORDER REF. NO.

WELL NUMBER : 8

CUSTOMER NUMBER : 02581005

LEASE NAME AND NUMBER BERTHA HOWARD #8	STATE 14	COUNTY/PARISH	CITY	DISTRICT NAME OAKLEY	DISTR. NO. 3320
JOB LOCATION/FIELD	MTA DISTRICT	DATE OF JOB 12/12/90	TYPE OF SERVICE LAND-LONG STRING/PRODUC		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100318	1.00	CEMENT CASING 3,000 TO 3,500	1,095.00		1,095.00
10109005	12.00	MILEAGE CHRG, FROM NEAREST BASE OF	2.35		28.20
10425010	500.00	MUD-SWEEP, WITH BJ-TITAN PUMPING EQ	1.45	GL	725.00
10410504	150.00	CLASS "A" CEMENT	5.35	CF	802.50
10415018	100.00	FLY ASH	2.79	CF	279.00
10420145	600.00	BJ-TITAN GEL, BENTONITE, BULK SALES	0.13	LB	78.00
10415038	1260.00	A-5 SALT	0.11	LB	140.60
10415082	1500.00	KOL SEAL	0.33	LB	495.00
10430620	1.00	5 1/2" TOP PLUG RESIN/PLASTIC CORE	60.00	EA	60.00
10880001	250.00	MIXING SEVICE CHRG DRY MATERIALS, P	1.10		275.00
10940101	150.00	DRAYAGE, PER TON MILE	0.75		112.50
10409600	1.00	5-1/2 GUIDE SHOE (6)	124.00	GL	124.00
10409600	1.00	5-1/2 INSERT (GEMOCO)	133.00	GL	183.00
10409600	8.00	5-1/2 CENTRALIZERS (2)	46.75	GL	374.00
10107891	1.00	FUEL SURCHARGE	93.15		93.15
			SUBTOTAL		4,370.15
			DISCOUNT		1,050.94

ACCOUNT	4.25000% STATE TAX 1.00000% COUNTY TAX 2547.71 2547.71 108.28 25.50	RECEIVED STATE CORPORATION COMMISSION MAR 13 1991 CONSERVATION DIVISION Wichita, Kansas SUBTOTAL DISCOUNT
TAX EXEMPTION STATUS:	PAY THIS AMOUNT 3,952.99	



P.O. Box 4442
Houston, Texas 77

CEMENTING LOG

ORIGINAL

15.009.24451.0000

STAGE NO.

Date 12-12-90 District Dakota Ticket No. 610079
Company Houston Rig Whitcomb Transit
Lease B. Howard Well No. 8
County Barton State KS
Location Ellinwood 25-8E-74N-8E-33 Field

CASING DATA: PTA ☐ Squeeze ☐
Surface ☐ Intermediate ☐ Production ☒ Liner ☐
Size 5 1/2 Type _____ Weight 15.5 Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size _____ Weight _____ Collars _____
Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.238 Lin. ft./Bbl. _____
Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____
Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type 60/40/4
10% Salt 6" Kalsol Excess _____

Amt. 125 Skys Yield _____ ft³/sk Density 0 PPG

TAIL: Pump Time _____ hrs. Type 60/40/2
10% Salt 6" Kalsol Excess _____

Amt. 125 Skys Yield _____ ft³/sk Density _____ PPG

WATER: Lead 20 gals/sk Tail 17 gals/sk Total 37 Bbls.

Pump Trucks Used 6454

Bulk Equip. 54011

Float Equip: Manufacturer Baker

Shoe: Type Cement Depth 3389

Float: Type Flapper Insert Genuine Depth 3357

Centralizers: Quantity 8 Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type H₂O Amt. 80 1/4 Bbls. Weight _____ PPG

Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Wm Fitzgerald

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
9:45	900					On Location + Set up trucks
						Proj Safety Meeting
1:30	run					Run Float Equipment
3:50	run					500 gal 11.1.1 Surfact
3:55	run		24 Bbls Slurry			Lead Cement 100 sks
4:05	run		28.8 Bbls Slurry			Tail Cement 125 sks
4:15	run					Whitcomb pump & lines
4:20	run					Release Plug + Displace to Insert @ 3357 ft
4:35	run					Plug Down
						Insert Did _____
						Hold
						Did not Lead Plug Pumped 2 1/2 Bbls over
						Displacement @ Their Request
						1711X
						15 sks in Rat hole
						10 sks in Water Well

RECEIVED
STATE CORPORATION COMMISSION

MAR 13 1991

CONSERVATION DIVISION
Wichita, Kansas

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs.

THANK YOU

Form No. SR 0502 (Rev. 3/90)

Note: Must accompany job ticket.

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 12 10 70 Location 8 20^S 11^W Elevation 1782^{ft} County BARTONCompany MUSTANG OIL & GAS CORPORATION Number of Copies 5Charts Mailed to PO Dower 1609 Great Bend Ks 67530Drilling Contractor Woodman Inc.Length Drill Pipe 3031 I.D. Drill Pipe 3 80 Tool Joint Size 4 1/2 x 1 1/4Length Weight Pipe — I.D. Weight Pipe — Tool Joint Size —Length Drill Collars — I.D. Drill Collars — Tool Joint Size 4 1/2 x 1 1/4Top Packer Depth 3049 Bottom Packer Depth 3054 Number of Packers Two Packer Size 6 1/4TESTED FROM 3054 TO 3070 ANCHOR LENGTH 36 TOTAL DEPTH 3090 Hole Size 7 1/2LEASE & WELL NO. B HOWARD 8 FORMATION TESTED LANSING TEST NO. 1Mud Weight 8.8 Viscosity 42 Water Loss 12 Chlorides - Ppts 3400 D.S.T. —Maximum Temp. 156 °F Initial Hydrostatic Pressure (A) 1529 P.S.I. Final Hydrostatic Pressure (H) 1506 P.S.I.Tool Open I.F.P. from 830 m to 900 m 30 min 20 from [B] 147 P.S.I. to [C] 154 P.S.I.Tool Closed I.C.I.P. from 900 m to 945 m 45 min 145 [D] 1119 P.S.I.Tool Open F.F.P. from 945 m to 1015 m 30 min 145 from [E] 154 P.S.I. to [F] 154 P.S.I.Tool Closed F.C.I.P. from 1015 m to 1115 m 60 min 245 [G] 1119 P.S.I.Initial Blow STRONG BLOW GAS TO SURFACE 3 1/2Final Blow 11 11 11 11Total Feet Recovered 1791 SLIGHTLY OIL & GAS CUT MUD Gravity of Oil — Corrected —50 Feet of SLIGHTLY OIL & GAS CUT MUD 3 % Gas 9 % Oil 80 % Mud 0 % Water120 Feet of OIL CUT MUD 5 % Gas 25 % Oil 70 % Mud 0 % Water— Feet of — % Gas — % Oil — % Mud — % WaterExtra Equipment - Jars — Safety Joint — Extra Packer — Straddle — Hook Wall —Top Recorder No. 17203 Clock No. 27937 Depth 3084 Ctr. Sub — Sampler —Bottom Recorder No. 13214 Clock No. — Depth 3087 Insurance —Price of Job —Tool Operator PAT STEVENSONApproved By —No 10196

Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to 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.

ORIGINAL

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

GAS FLOW REPORT

Date 12 10 90 Ticket # 10196 Company MUSTANG OIL & GAS Corp
 Well Name and No. B HOWARD 8 DST No. 1 Interval Tested 3054 - 3990
 County BARTON State KS Sec. 8 Twp. 20^S Rg. 11^W

Time Gauge Pre-Flow	Time Gauge In Min.	Inches of Water on Orifice Well Tester	Inches of Mercury on Orifice Well Tester	P.S.I. on Orifice Well Tester	P.S.I. on Pilot Tester	Choke Size	Gas Rate MCF
PRE FLOW							
843	13	34				1 1/2	406 mcf
850	20	34				1 1/2	406 mcf
855	25	34				1 1/2	406 mcf
860	30	34				1 1/2	406 mcf

SECOND FLOW							
955	10	36				1 1/2	418 mcf
1005	20	38				1 1/2	429 mcf
1015	30	38				1 1/2	429 mcf

GAS BOTTLE

Serial No. NA Date Bottle Filled 12 10 90 Date to be Invoiced — Test Ticket # 10196

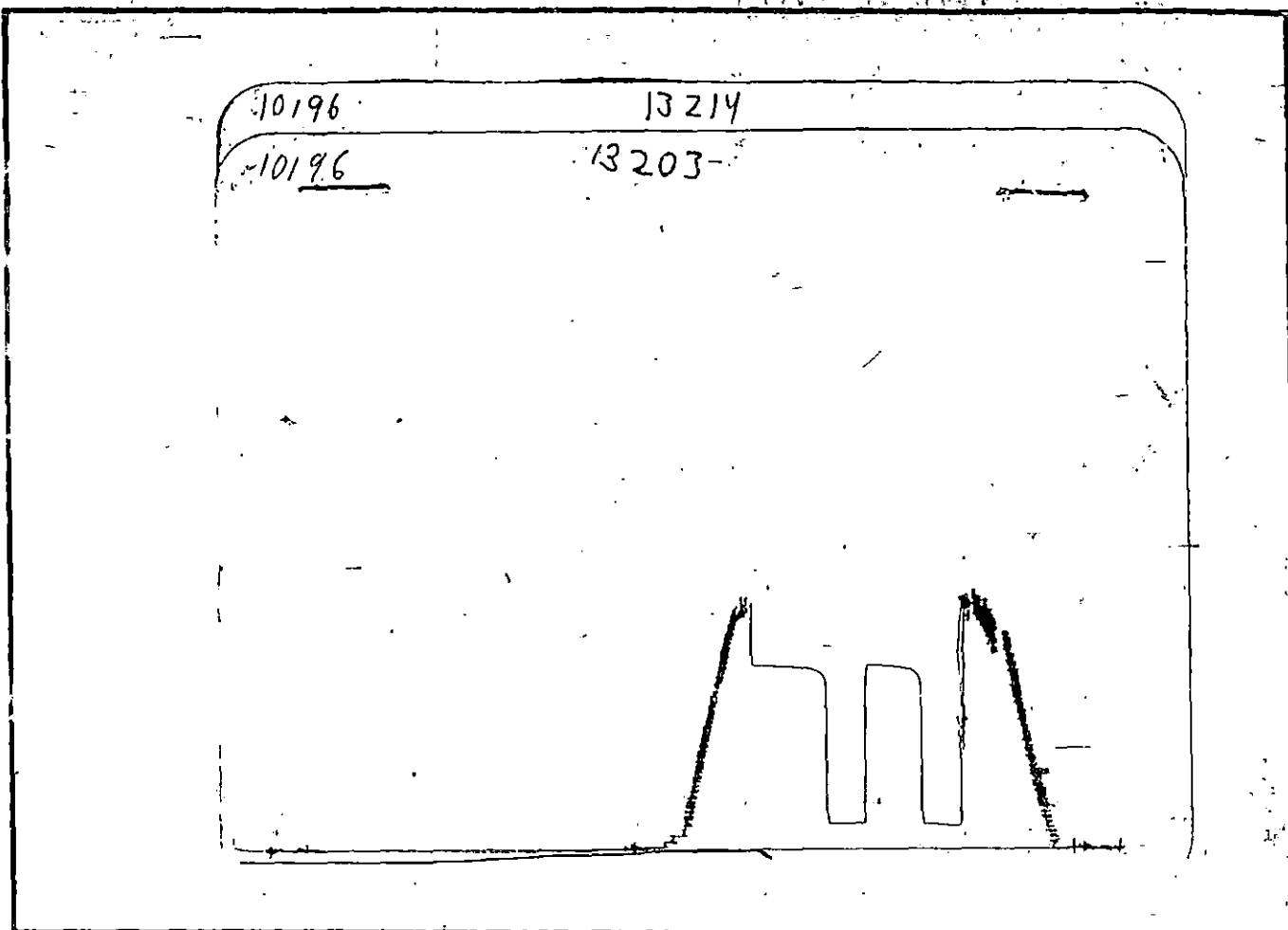
Requisition and Provisions for high pressure steel gas bottles. Superior Testers Enterprises, Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Superior Testers Enterprises, Inc. within thirty (30) days free of charge or be invoiced in the amount of \$125.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2 % per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

ORIGINAL



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1529	1475	P.S.I.
(B) First Initial Flow Pressure	143	131	P.S.I.
(C) First Final Flow Pressure	154	136	P.S.I.
(D) Initial Closed-In Pressure	1119	1089	P.S.I.
(E) Second Initial Flow Pressure	154	143	P.S.I.
(F) Second Final Flow Pressure	154	144	P.S.I.
(G) Final Closed-In Pressure	1119	1089	P.S.I.
(H) Final Hydrostatic Mud	1506	1459	P.S.I.

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

WELL NAME : B HOWARD #8
 WELL NO. : P.D. DRAWER 1807, TRACT RELOCATION : B-208-11W
 COUNTY : KANSAS, BATTON FIELD :
 WELL NO. : 177 (P.D.) : 1782 TEST DATE : 12-10-1990

EQUIPMENT AND LOG DATA

FORMATION TESTED : LOESS	DRILL PIPE LENGTH(ft) : 3031
TEST INT. KB : 3054 to 3090	DRILL PIPE O.D. (in) : 3.92
ANNULAR LENGTH(ft) : 36	WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(FT-KB) : 3090	DRILL COLLAR LENGTH(ft) : 0
HIGH HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D. (in) : 2.259
HOLE WEIGHT : 8.3	TOP PACKER DEPTH(kb) : 3049
HOLE VISCOSITY : 42	BOTTOM PACKER DEPTH(kb) : 3054
LOG - 11.0 DEPT : 2400	DUAL PACKERS :
SURFACE CHART : 4/4	PACKER SIZE(in) : 6 3/4
GEOM. CHOKER (in) : 3/4	PACKER HOLD : Yes
TOOL SIZE (O.D.) : 5 1/2	TOOL PLUG : No
TOOL JOINT SIZE (F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 106	TEST TICKET NUMBER : 10196

EXTRA EQUIPMENT :

EQUIPMENT SERIAL NO. : 13203

RANGE : 0 - 4425

CLOCK RANGE : 12 HOURS

CAL. ERR. : 1110.69 * Diff. : 4.52

SURFACE BLOW

1st Opening : STRONG BLOW GAS TO SURFACE IN 3 MINUTES
 2nd Opening : STRONG BLOW

RECOVERY

Recovered 50 - feet of SLIGHTLY OIL AND GAS CUT MUD
 Recovered 120 - feet of OIL CUT MUD

REMARKS :

WITNESSED BY : ARLEN RATZLOFF

TOOL OPERATOR : PAT STEVENSON

WITNESSED BY : SUPERIOR TESTERS ENTERPRISES INC.

ORIGINAL

HARTER TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

WELL : BOWMAN OH AND GAS
 DATE : 12-10-1990
 DEPTH : 3034.0

WELL NAME : B HOWARD HB
 LOCATION : 3-208-11W
 SERIAL NO. : 13203

COMMENTS	TIME min	DEFL in	CALC	PRESSURE -PSIG CORR CORRECTED
WELL HEAD				
Depth : 3034.0 ft-kb				
12:00:00	0.0	1.338	1475.53	-3.91 1475.64
12:01:00	0.0	1.119	125.65	5.41 131.06
12:02:00	5.0	1.119	125.65	5.41 131.06
12:03:00	10.0	1.119	125.65	5.41 131.06
12:04:00	15.0	1.122	128.98	5.38 134.36
12:05:00	20.0	1.122	128.98	5.38 134.36
12:06:00	25.0	1.124	131.20	5.36 136.56
12:07:00	29.0	1.124	131.20	5.36 136.56
12:08:00 FLOW	0.0	1.124	131.20	5.36 136.56
12:09:00	3.0	1.918	1013.09	-2.03 1011.06
12:10:00	6.0	1.946	1044.17	-2.13 1042.04
12:11:00	9.0	1.963	1063.07	-2.23 1060.84
12:12:00	12.0	1.971	1071.95	-2.26 1069.69
12:13:00	15.0	1.975	1076.40	-2.28 1074.12
12:14:00	18.0	1.979	1080.84	-2.30 1078.54
12:15:00	21.0	1.982	1084.17	-2.31 1081.86
12:16:00	24.0	1.984	1086.39	-2.32 1084.07
12:17:00	27.0	1.986	1088.61	-2.33 1086.28
12:18:00	30.0	1.987	1089.73	-2.34 1087.39
12:19:00	33.0	1.987	1089.73	-2.34 1087.39
12:20:00	36.0	1.988	1090.84	-2.34 1088.50
12:21:00	39.0	1.989	1091.95	-2.35 1089.60
12:22:00	42.0	1.989	1091.95	-2.35 1089.60
12:23:00 1ST SHUT-IN	0.0	1.989	1091.95	-2.35 1089.60
12:24:00 2ND FLOW	0.0	1.130	137.87	5.31 143.17
12:25:00	5.0	1.130	137.87	5.31 143.17
12:26:00	10.0	1.130	137.87	5.31 143.17
12:27:00	15.0	1.130	137.87	5.31 143.17
12:28:00	20.0	1.130	137.87	5.31 143.17
12:29:00	25.0	1.130	137.87	5.31 143.17
12:30:00	30.0	1.131	138.98	5.30 144.27
12:31:00 END FLOW	0.0	1.131	138.98	5.30 144.27
12:32:00	3.0	1.913	1007.53	-2.00 1005.53
12:33:00	6.0	1.943	1040.86	-2.14 1038.72
12:34:00	9.0	1.956	1055.29	-2.20 1053.10
12:35:00	12.0	1.965	1065.29	-2.24 1063.05
12:36:00	15.0	1.970	1070.84	-2.26 1068.58
12:37:00	18.0	1.974	1075.29	-2.28 1073.01
12:38:00	21.0	1.976	1077.51	-2.29 1075.22
12:39:00	24.0	1.978	1079.73	-2.30 1077.43

15.009.24451.0000

ORIGINAL

MARTIN LUTHER TESTERS ENTERPRISES, INC.

SEDSURFACE PRESSURE MEASUREMENTS

FORMATION : OILFIELD OO AND GAS
 DATE OF TEST : 12-12-1990
 DEPTH : 3094.0

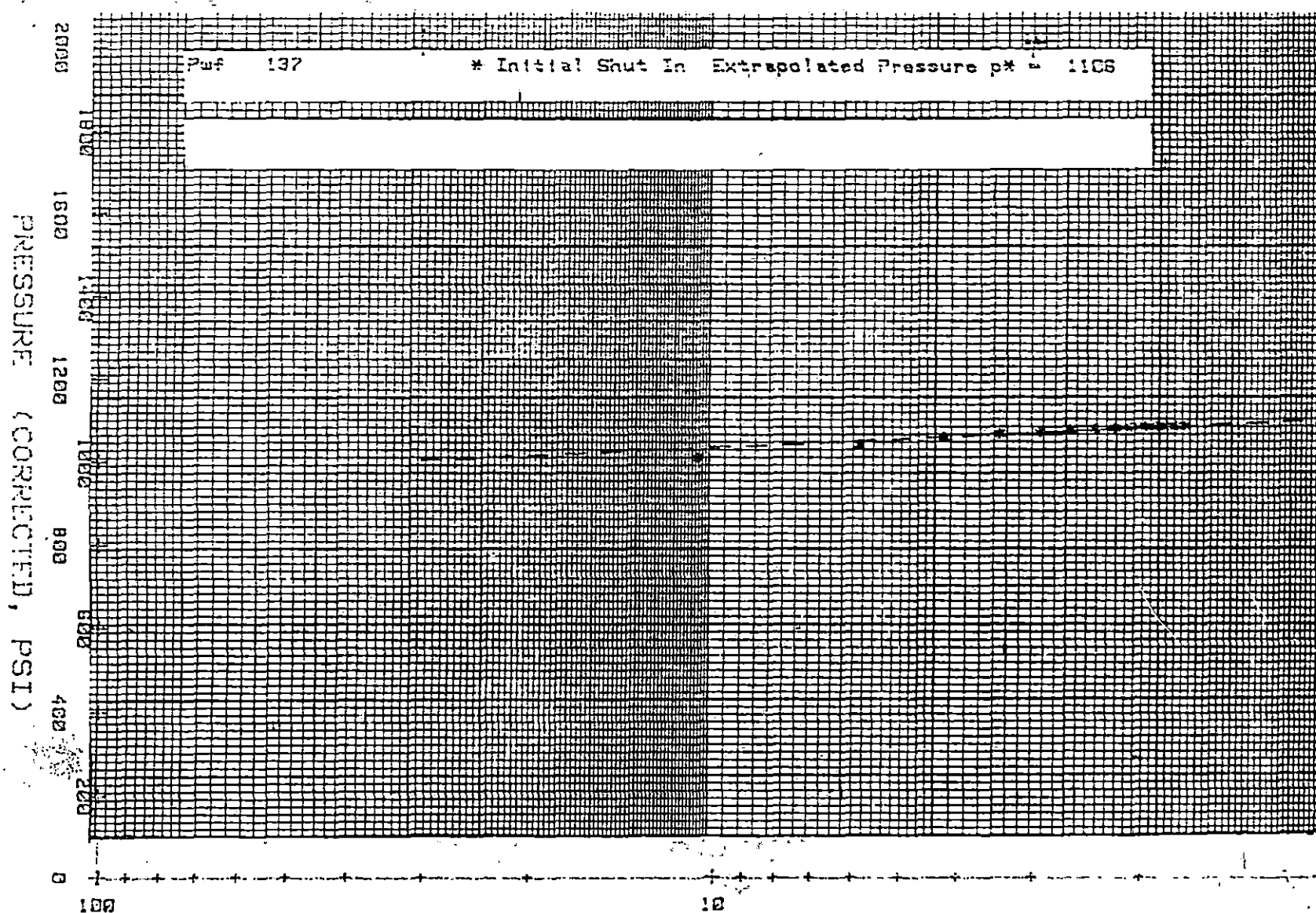
WELL NAME : B HOWARD #8
 LOCATION : 9-203-JMW
 SERIAL NO. : 13203

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST LOG #1					
- 10:38	27.0	.980	1081.95	-2.30	1079.65
- 10:41	30.0	.981	1083.06	-2.31	1080.75
- 10:44	33.0	.983	1085.28	-2.32	1082.96
- 10:47	36.0	.984	1086.39	-2.32	1084.07
- 10:50	39.0	.984	1086.39	-2.32	1084.07
- 10:53	42.0	.985	1087.50	-2.33	1085.18
- 10:56	45.0	.986	1088.61	-2.33	1086.28
- 10:59	48.0	.986	1088.61	-2.33	1086.28
- 11:02	51.0	.987	1089.73	-2.34	1087.39
- 11:05	54.0	.988	1090.84	-2.34	1088.50
- 11:08	57.0	.988	1090.84	-2.34	1088.50
- 11:11	60.0	.989	1091.95	-2.35	1089.60
-11:11 2ND SURF-IN	0.0	.989	1091.95	-2.35	1089.60
-2ND HYDROSTATIC	0.0	1.323	1462.92	-3.85	1459.07

LOCATION : 8-22S-11W

DATE : 12-12-1992

GALGE # : 13203

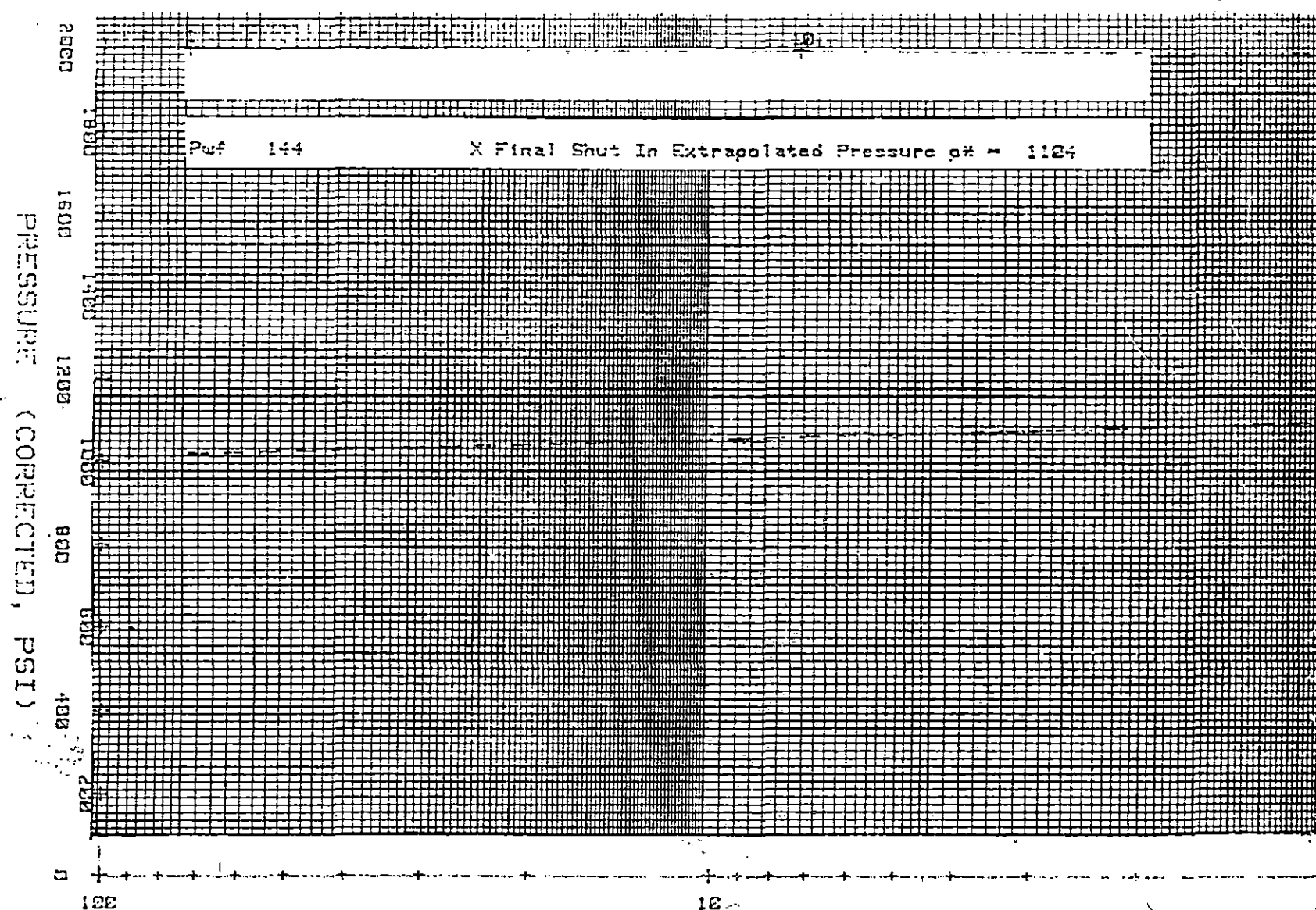


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LOCATION : 8-20S-11W

DATE : 12-10-1992

Gauge # : 13203



TIME (MINUTES) : $(T+dt)/dt$ - (Semilog scale)

15.009.24451.0000

15.009.24451.0000

ORIGINAL

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

CUSTOMER : BUSTARD OIL AND GAS
DATE OF TEST : 12-10-1990
WELL NO : 1

WELL NAME : B HOWARD #8
LOCATION : 8-208-11W
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1106.00
Slope of Build-up Curve (psi/leg cycle):	68.62
Effective Producing Time (min):	29.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES, INC.

HORNOR ANALYSIS

COMPANY : MUSTANG OIL AND GAS
 WELL : D HENARD #2
 LOCATION : Q-205-11W
 COUNTY : KANSAS, BARTON
 DATE : 12-10-1972
 FROM WELL KB : 3054 To 3070
 ESTD INTERVAL (FE) K.B. : 36.00
 ESTD COR : 1777 OLD : 1782
 FILL :

ELEMENT SERIAL NO. : 13203
 LATEST CALIBRATION :

COUNTS	TIME min	(Feet)/dt min	PRESSURE CORR PSIG
--------	-------------	------------------	-----------------------

Refer. depth : 3024.0 ft-kb

0:59 FLOW	0.00	0.00	135.56
	3.00	10.67	1011.01
	6.00	5.83	1041.85
	9.00	4.22	1060.57
	12.00	3.42	1069.38
	15.00	2.93	1073.79
	18.00	2.61	1078.19
	21.00	2.38	1081.50
	24.00	2.21	1083.70
	27.00	2.07	1085.90
	30.00	1.97	1087.00
	33.00	1.88	1087.00
	36.00	1.81	1088.11
	39.00	1.74	1089.21
	42.00	1.69	1089.21
-7:41 1ST SHUT-IN	0.00	0.00	1089.21

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

15.009.24451.0000

ORIGINAL
SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : MUSTANG OIL AND GAS

BY : J. L. EDWARDS JR

LOCATION : R-208-11M

D : 1 SHUT : KANSAS, BARTON

D : 12-10-1970

D : 1 H.P. KB : 3054 Fc 3090

D : 1 H.P. KB : 3054 Fc 3090

D : 1 H.P. KB : 3054 Fc 3090

FIELD :

ELEMENT SERIAL NO. : 13203

LY TEST CALIBRATION :

COLUMNS	TIME min	(T+dt)/dt min	PRESSURES CORR PSIG
Refer. depth : 3084.0 ft-kb			
-10:11 END FLOW	0.00	0.00	144.27
	3.00	24.67	1005.51
	6.00	12.03	1038.55
	9.00	8.89	1052.86
	12.00	6.92	1062.78
	15.00	5.73	1068.28
	18.00	4.94	1072.69
	21.00	4.38	1074.89
	24.00	3.96	1077.09
	27.00	3.63	1079.30
	30.00	3.37	1080.40
	33.00	3.15	1082.60
	36.00	2.77	1083.70
	39.00	2.82	1083.70
	42.00	2.69	1084.80
	45.00	2.58	1085.90
	48.00	2.48	1085.90
	51.00	2.39	1087.00
	54.00	2.31	1088.11
	57.00	2.25	1088.11
	60.00	2.18	1089.21
-11:11 END SHUT-IN	0.00	0.00	1089.21

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

ORIGINAL

15.009.24451.0000

SUNBELT TESTER ENTERPRISES INC.

DATA SUMMARY

TESTED: BENTON OIL AND GAS
DATE OF TEST: 12-10-1990
WELL NO: 1

WELL NAME: BENTON #3
LOCATION: 9-206-11W
SHUT-IN PERIOD: 2

INTERPRETIVE DATA (OIL)

PERMEABILITY	
Oil (md ft/cp):	35.54
Gas (md ft/cp):	0.00
VISCOSITY	
Oil (cp):	3.16
Gas (cp):	0.00
TOTAL PERMEABILITY (md/cp):	3.95
TOTAL COMPRESSIBILITY (psi ⁻¹):	6.79E-06
COHESION POROSITY RATIO:	4.69
GRAIN TO BULK RATIO:	4.69
Reservoir Temperature (F):	106.00
Formation Porosity:	.18
Formation Thickness (ft):	10.00
Wellbore Radius (in):	3.94
Reservoir Compressibility (psi ⁻¹):	4.80E-07
Calculated Skin Factor:	19.34
PRODUCTION WITH DAMAGE REMOVED (bbl/D):	48.58
PRODUCTION INDEX (bbl/psi):	.01
Final Flow Pressure (psi):	144.00
APPROXIMATE RADIUS OF INVESTIGATION (ft):	63.08
Total Flowing Time (min):	71.00
EXTRAPOLATED RESERVOIR PRESSURE (psi):	1104.00
Slope of build-up curve (psi/log cycle):	45.46
Effective Flowing Time (min):	71.00

CO-7

PLAT AND CERTIFICATION OF ACREAGE ATTRIBUTABLE TO AN OIL WELL

State Corporation Commission, Conservation Division
200 Colorado Derby Bldg. Wichita, Kansas 67202

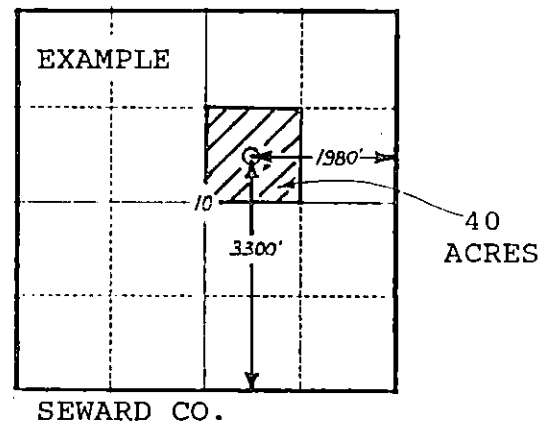
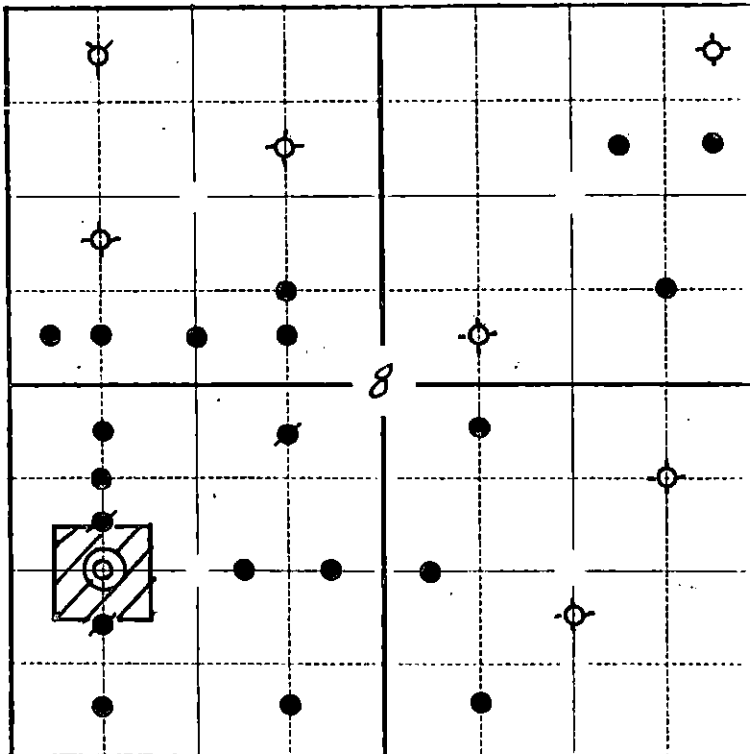
OPERATOR Mustang Oil & Gas Corp.
LEASE NAME B. Howard
WELL NUMBER 8
FIELD Marchand
NUMBER OF ACRES ATTRIBUTED TO WELL 10

LOCATION OF WELL:

1320 feet north of SE corner
4620 feet west of SE corner
8 Sec. 20S T. 11W R.
COUNTY Barton

PLAT

(Show location of well and shade attributable acreage)
(Show footage to nearest lease or unit boundary line)



The undersigned hereby certifies that he is Chief Geologist for Mustang Oil & Gas Corp. (Co.), a duly authorized agent, that all information shown hereon is true and correct to the best of his knowledge and belief, and that all acreage claimed as attributable to the well named herein is held by production from that well.

Subscribed and sworn to before me on this 16th day of November 1990

My Commission expires 11-6-94

RECEIVED
STATE CORPORATION COMMISSION

Kandy Hanson Notary Public

(6-1989)

API 15-001-24451

NOV 16 1990
CONSERVATION DIVISION
Wichita, Kansas

KANDY HANSON
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 11-6-94