Permit #: 20347

County: Cass

CONFIDENTIAL UNTIL:

Date Issued: 5-6-82

Date Cancelled:

Date Plugged: 8-82

OGC FORMS	Date Received
1	
2	
3	5-6-82
3i	
4	5-6-82
4i	
5	
6	
7	9-2-82
8	
11	
12	
Misc. Form 2	

COMMENTS:

	TYPE	ID #	Date Received
Logs			
Samples	chip		
	core		
Analyses	water		
	core		9-2-82

Additional Submitted Data:
Formation Test Report

Missouri Oil and Gas Council

Form OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

for an oil well ☒ or gas well ☒

NAME OF COMPANY OR OPERATOR Landmark Production, Inc. DATE 4/22/82

10950 Grandview-Suite 350 (Address) Overland Park (City) Kansas 66210 (State)

DESCRIPTION OF WELL AND LEASE

Name of lease	Well number	Elevation (ground)
Audra M. Stark	One	900'

WELL LOCATION (give footage from section lines)

2,357 ft. from (N) (S) sec. line 2,403 ft. from (E) (W) sec. line

WELL LOCATION Section 11 Township 44N Range 33W

County: Cass

Nearest distance from proposed location to property or lease line: 235' feet

Distance from proposed location to nearest drilling, completed or applied — for well on the same lease: No other wells applied for feet

Proposed depth	Drilling contractor, name & address	Rotary or Cable Tools	Approx. date work will start
650'	Westport Drilling Osawatomie, Kansas	Rotary	5/6/82

Number of acres in lease: 160

Number of wells on lease, including this well, completed in or drilling to this reservoir: 0

Number of abandoned wells on lease: 3

If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____

No. of Wells: producing _____ injection _____ inactive _____ abandoned _____

Status of Bond: Single Well ☐ Amt. _____ Blanket Bond ☒ Amt. $40,000.00 ☒ ON FILE ☐ ATTACHED

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.

Proposed casing program

amt.	size	wt./ft.	cem.
40'	7 5/8"	24.0	6 sacks
600'	4 1/2"	10.5	68 sacks

Approved casing — To be filled in by State Geologist

amt.	size	wt./ft.	cem.

I, the undersigned, state that I am the Manager of the Landmark Production, Inc. (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature Mendell M. Bell

Permit Number #20347

Approval Date 5/6/82

Approved By Wallace B. Howe

Note: This Permit not transferable to any other person or to any other location.

☑ Drillers log required

☑ E-logs required if run

☑ Core analysis required if run

☑ Drill stem test info. required if run

☑ Samples required

☐ Samples not required

RECEIVED

MAY 06 1982

MO. OIL & GAS COUNCIL

WATER SAMPLES REQUIRED @

Remit two copies to: Missouri Oil and Gas Council P.O. Box 250 Rolla, Mo. 65401

One will be returned for driller's signature

Approval of this permit by the Oil and Gas Council does not constitute endorsement of the geologic merits of the proposed well nor endorsement of the qualifications of the permittee.

3/12/82

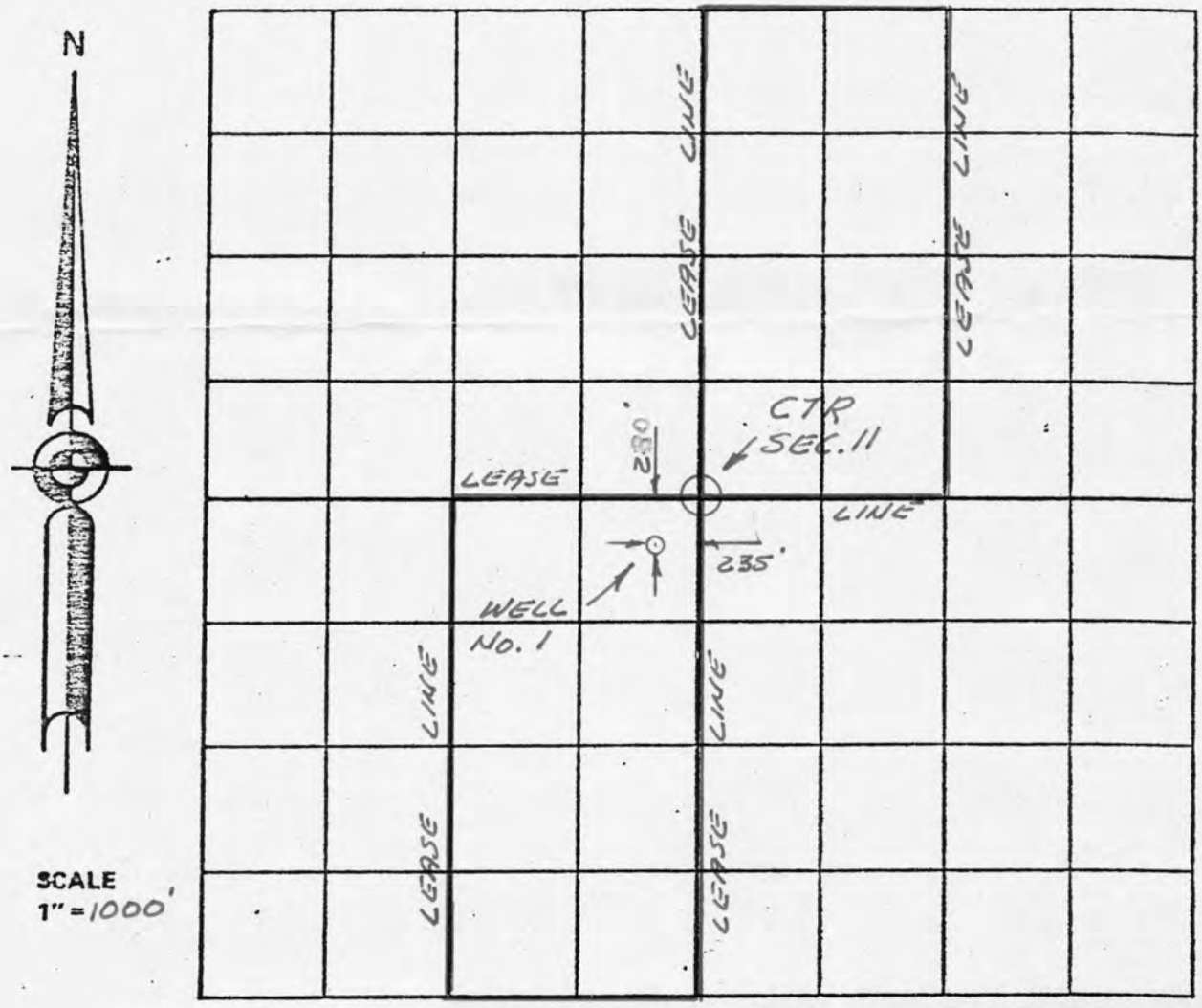
MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

Form OGC-4

Owner: Landmark Production, Inc.

Lease Name: A. M. Stark County: Cass

2357 feet from South (N) - (S) line and 2403 feet from West (E) - (W) line of Sec. 11, Twp. 44 N, Range 33.



REMARKS:

#20347 WELL NO. 1

Elevation 900

RECEIVED
MAY 06 1982
MO. OIL & GAS COUNCIL

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements.

This is to Certify that I have executed a survey to accurately locate oil and gas wells in accordance with 10 CSR 50-2.030 and that the results are correctly shown on the above plat.

MISSOURI LS-918 HOWARD L. SHERMAN REGISTERED LAND SURVEYOR

(SEAL)

Howard L. Sherman
Registered Land Surveyor

918
Number

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250, Rolla, Mo. 65401

One will be returned.

Missouri Oil and Gas Council

Form OGC-7

PLUGGING RECORD

Owner	Address
Landmark Production, Inc.	10950 Grandview, Suite 350 Overland Park, Kansas 66210

Name of Lease	Well No.	Permit Number (OGC-3 or OGC-3I number)
Audra M. Stark	#1	20347

Location of Well	Sec-Twp-Rng or Block & Survey	County
Sec. 11, T44N - R33W		Cass

Application to drill this well was filed in name of	Has this well ever produced oil or gas?	Character of well at completion (initial production) Oil (bbls/day)	Gas (MCF/day)	Dry?
Landmark Production, Inc.	No	-----	-----	Yes

Date Abandoned	Total depth	Amount well producing prior to abandonment Oil (bbls/day)	Gas (MCF/day)	Water (bbls/day)
8/82	455'	0	0	

Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment.	Fluid content of each formation	Depth interval of each formation	Size, kind, & depth of plugs used. Indicate zones squeeze cemented, giving amount cement.
Squirrel	Water	366' to 430'	

Size pipe	Put in well (ft)	Pulled out (ft)	Left in well (ft)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
7"	28'	0	28'		
4½"	411'	0	411'	Perf. Gunjets .38 @ 2 per foot 387' to 412' 50 shots	None

Was well filled with mud-laden fluid?	Indicate deepest formation containing fresh water.
No	

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well:
Paul R. Stark	7100 Eastern, K.C., Mo.	North & West
Leo H. Kurzweil	Rt. 1, Box 42, Freeman, Mo. 64746	East & North

Method of disposal of mud pit contents: Unloaded, Dried Naturally, and Filled In. We cemented to surface and then cut the casing off below plow depth.

Use reverse side for additional detail.

File this form in duplicate with

CERTIFICATE: I, the undersigned, state that I am the Manager of the Landmark Production Inc (Company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

Signature Mendene M Dell

RECEIVED

SEP 02 1982

MO. OIL & GAS COUNCIL

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250, Rolla, MO 65401

One will be returned.

3/12/82

CORE ANALYSIS REPORT

FOR

LANDMARK PRODUCTIONS, INC.
STARK NO. 1 WELL
CASS COUNTY, MISSOURI

MAY 11, 1982

LANDMARK PRODUCTIONS, INC.
34 CORPORATE WOODS
SUITE 350
10950 GRANDVIEW
OVERLAND PARK, KS 66210

ATTN: MR. ALVIN WINESTOCK

SUBJECT: CORE ANALYSIS DATA
STARK NO. 1 WELL
CASS COUNTY, MISSOURI
CLI FILE NO. 3406-01595

GENTLEMEN:

DIAMOND CORES WERE TAKEN IN THE SUBJECT WELL AND LATER TRANSPORTED TO OUR CHANUTE LABORATORY FOR ANALYTICAL PURPOSES.

PERMEABILITY AND POROSITY TESTS WERE RUN. THOSE RESULTS ARE LISTED IN TABULAR FORM ON THE FOLLOWING PAGE. THEY ARE ALSO PRESENTED IN GRAPHICAL FORM ON THE COREGRAPH PAGE OF THIS REPORT.

IT HAS BEEN OUR PLEASURE TO BE OF SERVICE TO YOU.

VERY TRULY YOURS,
J. Michael Edwards
CORE LABORATORIES, INC.
J. MICHAEL EDWARDS /MH
DISTRICT MANAGER

3 CC: ADDRESSEE

JME/dlp

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

LANDMARK PRODUCTIONS, INC.
STARK NO. 1 WELL

CASS COUNTY, MISSOURI

DATE: 5/11/82
FORMATION: SQUIRREL
DRLG. FLUID: WATER BASE MUD
LOCATION: SEC. 11-44N-33E

FILE NO: 3406-015
ENGINEER: HUDSON
ELEVATION:

PERMEABILITY & POROSITY RESULTS

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PERCENT	FLUID SATS. OIL	FLUID SATS. WTR.	GR. DEN.	DESCRIPTION
	366.0-77.0						SHALE
1	377.0-78.0	25.0	19.4			2.70	SD,SL/SLTY,CAL,MI
2	378.0-79.0	20.0	20.5			2.68	SD,SL/SLTY,CAL,MI
3	379.0-80.0	9.0	20.7			2.70	SD,SLTY,SL/CAL,MI
4	380.0-81.0	2.3	18.5			2.69	SD,SLTY,CAL,MIC,S
5	381.0-82.0	<0.1	18.8			2.73	SD,SLTY,CAL,MIC,S
6	382.0-83.0	0.5	17.8			2.72	SD,SLTY,CAL,MIC,S
7	383.0-84.0	4.5	17.8			2.75	SD,SLTY,CAL,MIC,S
8	384.0-85.0	40.0	21.1			2.68	SD,SL/SLTY,CAL,MI
9	385.0-85.8	25.0	21.3			2.67	SD,SL/SLTY,CAL,MI
	385.8-86.0						LOST CORE
10	386.0-87.0	3.0	18.0			2.70	SD,SLTY,CAL,MIC,S
11	387.0-88.0	0.3	15.7			2.71	SD,SLTY,CAL,MIC,S
12	388.0-89.0	8.0	18.8			2.70	SD,SLTY,CAL,MIC,S
13	389.0-90.0	1.3	17.0			2.73	SD,SLTY,CAL,MIC,S
14	390.0-91.0	11.0	20.4			2.68	SD,SL/SLTY,CAL,MI
15	391.0-92.0	26.0	21.0			2.70	SD,SL/SLTY,CAL,MI
16	392.0-93.0	19.0	15.6			2.67	SD,SL/SLTY,CAL,MI
17	393.0-94.0	6.1	18.8			2.70	SD,SLTY,SL/CAL,MI
18	394.0-95.0	4.5	18.3			2.78	SD,SLTY,SL/CAL,MI
19	395.0-96.0	17.0	21.7			2.69	SD,SL/SLTY,CAL,MI
20	396.0-97.0	53.0	23.5			2.68	SD,SL/CAL,MIC
21	397.0-98.0	27.0	22.4			2.68	SD,SL/SLTY,CAL,MI
22	398.0-99.0	36.0	23.0			2.69	SD,SL/SLTY,MIC
23	399.0-00.0	61.0	23.5			2.68	SD,MIC
24	400.0-01.0	31.0	21.3			2.68	SD,SL/SLTY,MIC,SH

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

LANDMARK PRODUCTIONS, INC.
STARK NO. 1 WELL

DATE: 5/11/82
FORMATION: SQUIRREL

FILE NO: 3406-015
ENGINEER: HUDSON

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PERCENT	FLUID SATS. OIL	FLUID SATS. WTR.	GR. DEN.	DESCRIPTION
25	401.0-02.0	8.3	19.4			2.72	SD,SLTY,MIC,SHY
26	402.0-03.0	3.4	18.8			2.71	SD,SLTY,MIC,SHY
27	403.0-04.0	6.5	19.2			2.69	SD,SLTY,MIC,SHY,L
28	404.0-05.0	5.2	20.6			2.69	SD,SLTY,MIC,LIG
29	405.0-06.0	24.0	23.1			2.68	SD,SL/SLTY,MIC
30	406.0-07.0	5.2	20.0			2.66	SD,SLTY,MIC,LIG
31	407.0-08.0	18.0	22.3			2.69	SD,SL/SLTY,MIC,LI
32	408.0-09.0	26.0	23.2			2.68	SD,SL/SLTY,MIC,PY
33	409.0-10.0	44.0	23.8			2.68	SD,SL/SLTY,MIC
34	410.0-11.0	32.0	23.0			2.67	SD,SL/SLTY,MIC
35	411.0-12.0	28.0	22.2			2.68	SD,SL/SLTY,MIC,LI
36	412.0-13.0	54.0	23.6			2.68	SD,MIC
37	413.0-14.0	23.0	21.4			2.69	SD,SL/SLTY,MIC
38	414.0-15.0	38.0	22.7			2.69	SD,SL/SLTY,CAL,MI
39	415.0-16.0	13.0	22.8			2.77	SD,SL/SLTY,MIC,PY
40	416.0-17.0	13.0	21.1			2.70	SD,SLTY,CAL,MIC,L
41	417.0-18.0	28.0	22.2			2.67	SD,SLTY,CAL,MIC,L
42	418.0-19.0	36.0	22.8			2.67	SD,SL/SLTY,MIC
43	419.0-20.0	61.0	23.6			2.67	SD,MIC
44	420.0-21.0	50.0	23.4			2.67	SD,MIC
45	421.0-22.0	52.0	23.9			2.67	SD,MIC
46	422.0-23.0	58.0	24.1			2.67	SD,MIC
47	423.0-24.0	39.0	23.2			2.68	SD,SL/SLTY,MIC
48	424.0-25.0	38.0	23.3			2.68	SD,SL/SLTY,MIC
49	425.0-26.0	23.0	21.9			2.67	SD,SL/SLTY,MIC

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CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY LANDMARK PRODUCTION, INC. FILE NO. 3406-01595

WELL STARK NO. 1 DATE 5/11/82

FIELD FORMATION SQUIRREL ELEV.

COUNTY CASS STATE MISSOURI DRLG. FLD. WATER BASE MUD CORES

LOCATION SEC. 11-44N-33W

CORRELATION COREGRAPH

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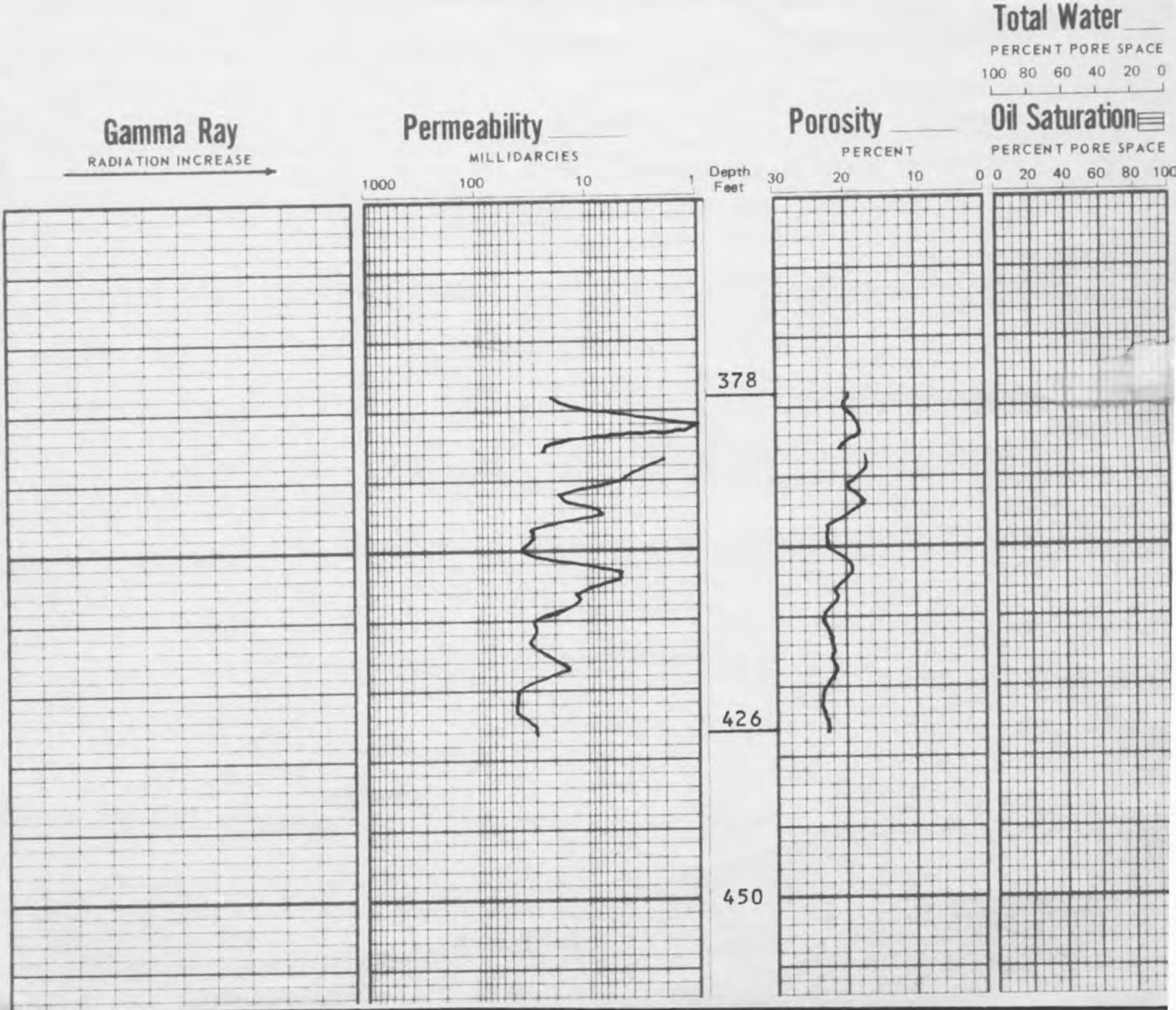
VERTICAL SCALE: 5" = 100'



Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

Company: Landmark Production, Inc. Lease & Well No.: Stark #1

Elevation: 900 Ground Level Formation: Squirrel Sand Effective Pay: -- Ft. Ticket No. 10010

Date: 5/9/82 Sec. 11 Twp. 44N Range 33W County: Cass State: Missouri

Test Approved by: Mendell M. Bell Western Representative: Norman Allen

Formation Test No. 1 Interval Tested from 380 ft. to 427 ft. Total Depth 427 ft.

Packer Depth 380 ft. Size 5½ in. Packer Depth - ft. Size - in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 397 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 400 ft. Recorder Number 2608 Cap. 4178

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor: Wesport Drilling Company Drill Collar Length 20 I. D. 1-3/4 in.

Mud Type: gel Viscosity: N.C. Weight Pipe Length - I. D. - in.

Weight: N.C. Water Loss: N.C. cc. Drill Pipe Length 344 I. D. 2.00 in.

Chlorides: N.C. P.P.M. Test Tool Length 16 ft. Tool Size 4½OD in.

Jars: Make - Serial Number - Anchor Length 47 ft. Size 4½OD in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 6-1/4 in. Tool Joint Size 2-3/8 in.

Blow: MISRUN

Recovered 400 ft. of water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

MISRUN HOLE IN DRILL STRING.

Time Set Packer(s) 10:45 A.M. ~~P.M.~~ Time Started Off Bottom 12:45 ~~A.M.~~ P.M. Maximum Temperature ?

Initial Hydrostatic Pressure ..... (A) 160 P.S.I.

Initial Flow Period ..... Minutes 110 (B) 148 P.S.I. to (C) 155 P.S.I.

Initial Closed In Period ..... Minutes -- (D) -- P.S.I.

Final Flow Period ..... Minutes -- (E) -- P.S.I. to (F) -- P.S.I.

Final Closed In Period ..... Minutes -- (G) -- P.S.I.

Final Hydrostatic Pressure ..... (H) 160 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/9/82 Test Ticket No. 10010

Recorder No. 1559 Capacity 4200 Location 397 Ft

Clock No. --- Elevation 900 Ground Level Well Temperature - °F

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	160	P.S.I.	Open Tool	10:45A	M		
B	First Initial Flow Pressure	148	P.S.I.	First Flow Pressure	15	Mins.	110	Mins.
C	First Final Flow Pressure	155	P.S.I.	Initial Closed-in Pressure	30	Mins.	--	Mins.
D	Initial Closed-in Pressure	--	P.S.I.	Second Flow Pressure	15	Mins.	--	Mins.
E	Second Initial Flow Pressure	--	P.S.I.	Final Closed-in Pressure	30	Mins.	--	Mins.
F	Second Final Flow Pressure	--	P.S.I.					
G	Final Closed-in Pressure	--	P.S.I.					
H	Final Hydrostatic Mud	160	P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 22 Inc.		Breakdown: 0 Inc.		Breakdown: 0 Inc.		Breakdown: 0 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	148						
P 2 5	148						
P 3 10	148						
P 4 15	148						
P 5 20	148						
P 6 25	148						
P 7 30	148						
P 8 35	149						
P 9 40	150						
P10 45	152						
P11 50	152						
P12 55	152						
P13 60	152						
P14 65	152						
P15 70	152						
P16 75	153						
P17 80	154						
P18 85	155						
P19 90	155						
P20 95	155						
WTC100	155						

Pressure Data

Date 5/9/82

Test Ticket No. 10010

Recorder No. 1559 Capacity 4200 Location 397

Clock No. --- Elevation 900 Ground Level Well Temperature -

Point		Pressure			Time Given		Time Computed	
A	Initial Hydrostatic Mud	160	P.S.I.	Open Tool	10:45A	M		
B	First Initial Flow Pressure	148	P.S.I.	First Flow Pressure	15	Mins.	110	Mi
C	First Final Flow Pressure	155	P.S.I.	Initial Closed-in Pressure	30	Mins.	--	Mi
D	Initial Closed-in Pressure	--	P.S.I.	Second Flow Pressure	15	Mins.	--	Mi
E	Second Initial Flow Pressure	--	P.S.I.	Final Closed-in Pressure	30	Mins.	--	Mi
F	Second Final Flow Pressure	--	P.S.I.					
G	Final Closed-in Pressure	--	P.S.I.					
H	Final Hydrostatic Mud	160	P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 22 Inc.		Breakdown: 0 Inc.		Breakdown: 0 Inc.		Breakdown: 0 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105	155						
P 2 110	155						
P 3							
P 4							
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
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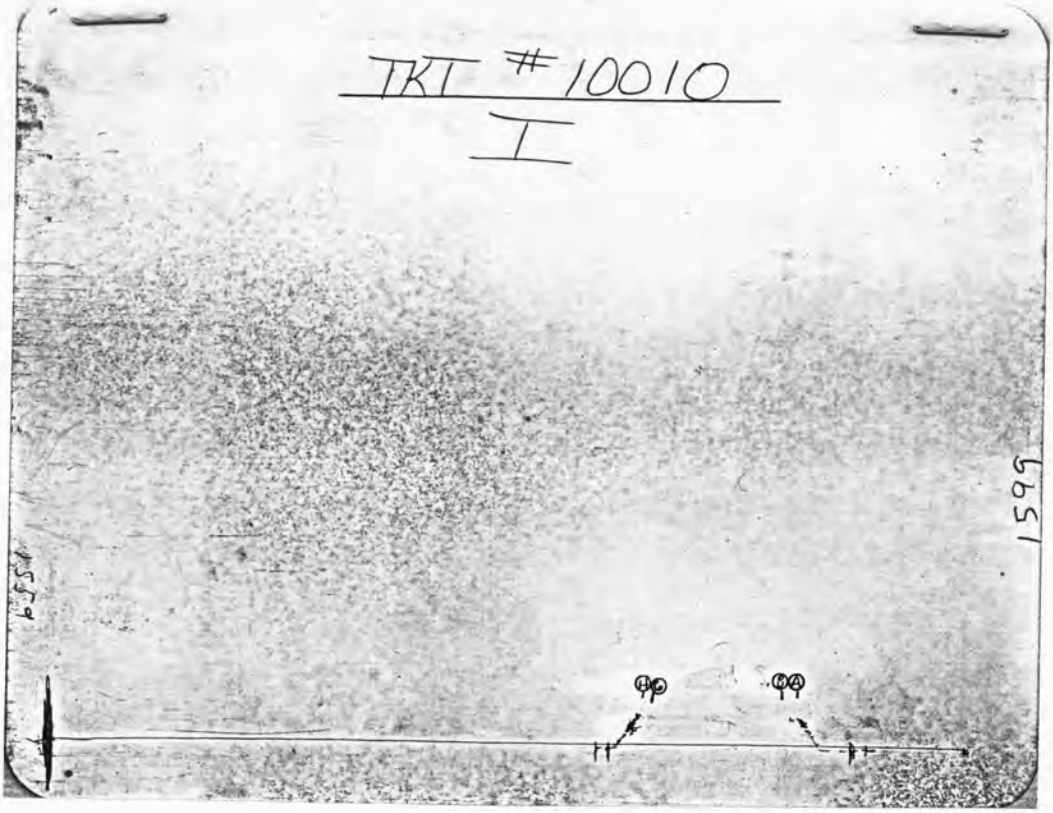
P18							
P19							
P20							

WTC - 4



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	PRESSURE Office Reading	
(A)	Initial Hydrostatic Mud	165	160	PSI
(B)	First Initial Flow Pressure	155	148	PSI
(C)	First Final Flow Pressure	155	155	PSI
(D)	Initial Closed-in Pressure	155	--	PSI
(E)	Second Initial Flow Pressure	155	--	PSI
(F)	Second Final Flow Pressure	155	--	PSI
(G)	Final Closed-in Pressure	155	--	PSI
(H)	Final Hydrostatic Mud	165	160	PSI

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company: Landmark Production, Inc. Lease & Well No.: Stark #1

Elevation: 900 Ground Level Formation: Squirrel Sand Effective Pay: -- Ft. Ticket No.: 10011

Date: 5/9/82 Sec.: 11 Twp.: 44N Range: 33W County: Cass State: Missouri

Test Approved by: Mendell M. Bell Western Representative: Norman Allen

Formation Test No.: 2 Interval Tested from: 380 ft. to: 427 ft. Total Depth: 427 ft.

Packer Depth: 380 ft. Size: 5½ in. Packer Depth: - ft. Size: - in.

Packer Depth: - ft. Size: - in. Packer Depth: - ft. Size: - in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 397 ft. Recorder Number: 1559 Cap.: 4200

Bottom Recorder Depth (Outside): 400 ft. Recorder Number: 2608 Cap.: 4178

Below Straddle Recorder Depth: - ft. Recorder Number: - Cap.: -

Drilling Contractor: Wesport Drilling Company Drill Collar Length: 20 I. D.: 1-3/4 in.

Mud Type: gel Viscosity: N.C. Weight Pipe Length: - I. D.: - in.

Weight: N.C. Water Loss: N.C. cc. Drill Pipe Length: 344 I. D.: 2.00 in.

Chlorides: N.C. P.P.M. Test Tool Length: 16 ft. Tool Size: 4½OD in.

Jars: Make: - Serial Number: - Anchor Length: 47 ft. Size: 4½OD in.

Did Well Flow?: No Reversed Out: No Surface Choke Size: 3/4 in. Bottom Choke Size: 3/4 in.

Main Hole Size: 6-1/4 in. Tool Joint Size: 2-3/8 in.

Blow: Weak throughout test.

Recovered: 180 ft. of: water Chlorides 1,700 ppm

Recovered: ft. of:

Recovered: ft. of:

Recovered: ft. of:

Recovered: ft. of:

Remarks:

Time Set Packer(s): 4:45 A.M. P.M. Time Started Off Bottom: 6:45 A.M. P.M. Maximum Temperature: 75°

Initial Hydrostatic Pressure ..... (A) 163 P.S.I.

Initial Flow Period ..... Minutes 15 (B) 82 P.S.I. to (C) 82 P.S.I.

Initial Closed In Period ..... Minutes 27 (D) 110 P.S.I.

Final Flow Period ..... Minutes 15 (E) 93 P.S.I. to (F) 93 P.S.I.

Final Closed In Period ..... Minutes 27 (G) 115 P.S.I.

Final Hydrostatic Pressure ..... (H) 153 P.S.I.

WTC-

WESTERN TESTING CO., INC.
Pressure Data

Date 5/9/82 Test Ticket No. 10011

Recorder No. 1559 Capacity 4200 Location 397 Ft.

Clock No. --- Elevation 900 Ground Level Well Temperature 75 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	163 P.S.I.		Open Tool	4:45 M	
B	First Initial Flow Pressure	82 P.S.I.		First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	82 P.S.I.		Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	110 P.S.I.		Second Flow Pressure	15 Mins.	15 Mins.
E	Second Initial Flow Pressure	93 P.S.I.		Final Closed-in Pressure	30 Mins.	27 Mins.
F	Second Final Flow Pressure	93 P.S.I.				
G	Final Closed-in Pressure	115 P.S.I.				
H	Final Hydrostatic Mud	153 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	82
P 2	5	82
P 3	10	82
P 4	15	82
P 5		
P 6		
P 7		
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	82
	3	102
	6	107
	9	109
	12	110
	15	110
	18	110
	21	110
	24	110
	27	110

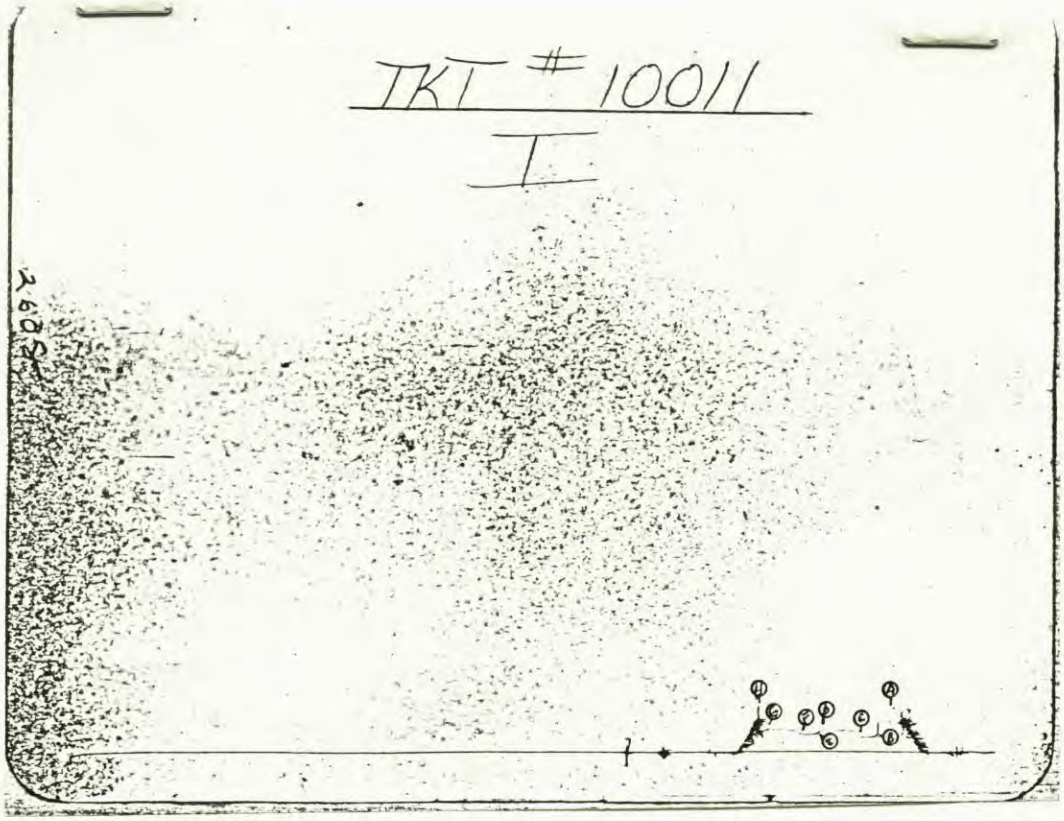
Second Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	93
	5	93
	10	93
	15	93

Final Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	93
	3	108
	6	112
	9	114
	12	115
	15	115
	18	115
	21	115
	24	115
	27	115

WTC - 4



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	PRESSURE Office Reading	
(A)	Initial Hydrostatic Mud	165	163	PSI
(B)	First Initial Flow Pressure	85	82	PSI
(C)	First Final Flow Pressure	85	82	PSI
(D)	Initial Closed-in Pressure	125	110	PSI
(E)	Second Initial Flow Pressure	105	93	PSI
(F)	Second Final Flow Pressure	105	93	PSI
(G)	Final Closed-in Pressure	125	115	PSI
(H)	Final Hydrostatic Mud	165	153	PSI