

15-023-20159-00-00

TYPE TEST: Initial Annual Special TEST DATE: 1/15/81

COMPANY: Murfin Drilling LEASE: Schorzman WELL NO.: #1-7

COUNTRY: Cheyenne LOCATION: SE 1/4 TWP: 4S RNG: 40W ACRES:

RESERVOIR: Niobrara PIPELINE CONNECTION: None

No. Name: Niobrara None

COMPLETION DATE: 11/22/80 PLUG BACK TOTAL DEPTH: 1289' PACKER SET AT: None

CASING SIZE: 4 1/2" WT. 9.5# ID. SET AT: 1324' PERM. 1185-1196'; 1202'-1215'

TUBING SIZE: 1 1/2" WT. 2.3# ID. SET AT: PERM. TO

TYPE OF WELL (Describe): Single (Gas) TYPE FLUID PRODUCTION: none

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE: DAM PRESS - P_a: Est. Bar. Press 12.6 P_a

GAS GRAVITY: Calculated with .579 % CARBON DIOXIDE: % NITROGEN: API GRAVITY OF LIQUID:

VERTICAL DEPTH (ft): TYPE METER CONNECTION: XXXXXX (PROVER) SIZE

REMARKS: Tested with 2" Critical Flow Prover

Well open at 10:30 A.M. 1/15/81

OBSERVED DATA

DURATION OF SHUT-IN 2 wks+

DATE	WELL HEAD SIZE (in)	PRESSURE (psia)	FLOWING TEMP. (°F)	WELL-HEAD TEMP. (°F)	CASING WELL-HEAD PRESS.		TUBING WELL-HEAD PRESS.		DURATION (HOURS)	LIQUID PROD. (bbls)
					psia	P _{wf} (P _c) psia	psia	(P _{wf} X P _c) psia		
1	1/8	224.7	49		234.5	247.1	234.5	247.1	1	None
2	3/16	210.4	54		226.0	238.6	224.7	237.3	1	"
3	7/32	198.0	55		213.0	225.6	210.4	223.0	1	"
4	1/4	181.2	55		200.0	212.6	198.0	210.6	1	"
5					185.0	197.6	181.2	193.8	1	"

RATE OF FLOW CALCULATIONS

DATE	EFFICIENT (P _{wf} / P _c) Mod	(PROVER) PRESSURE (psia)	EXTENSION $\sqrt{P_m - P_w}$	GRAVITY FACTOR P _g	FLOWING TEMP. FACTOR P _t	DEVIATION FACTOR P _v	RATE OF FLOW Q Mod	GOR	Q _m
1	.2716	237.3		1.314	1.011	1.021	87.4		
2	.6237	223.0		1.314	1.006	1.019	187.3		
3	.8608	210.6		1.314	1.005	1.017	243.5		
4	1.115	193.8		1.314	1.005	1.016	289.9		

PRESSURE CALCULATIONS

DATE	P _t psia	P _c psia	P _w psia	PLOTTING POINTS			Q Mod	7. SHUT-IN $100 \left[\frac{P_w - P_c}{P_c - P_w} \right]$
				(P _c) ² THOUSANDS	(P _w) ² THOUSANDS	(P _c) ² - (P _w) ² THOUSANDS		
1		247.1	237.3	61.1	56.3	4.8	87	
2		247.1	223.0	61.1	49.7	11.4	187	
3		247.1	210.6	61.1	44.7	16.4	244	
4		247.1	193.8	61.1	37.6	23.5	290	

INDICATED WELL HEAD OVER FLOW 522 Mod of 14.4 psia 584

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

I signed this the 19th day of January, 1981.

RECEIVED
STATE CORPORATION COMMISSION
Stan Salmer
For Company
Checked by

DEC 5 1985

TYPE TEST: Deliverability Open Flow DATE: 1/10/81

COMPANY: Murfin Drilling LEASE: Schorzman WELL NO.: 1-7
 COUNTY: Cheyenne LOCATION: SE 1/4 SECTION: 7 TWP: 4S RANG: 40W ACRES:
 FIELD: No Name RESERVOIR: Niobrara WELL LINE CONNECTION: None

COMPLETION DATE: 11/22/80 PLUG BACK TOTAL: 1289' PACKER SET AT:

CASING SIZE: 4 1/2" WT: 9.5# I.D.: 3.94" SET AT: 1324' PERM.: 1185-1196'; 1202' - 1215'
 TUBING SIZE: 1 1/2" WT: 2.3# I.D.: 1.315" SET AT: 1324' PERM.: 1185-1196'; 1202' - 1215'

TYPE COMPLETION (0-100%): Single (Gas) TYPE FLUID PRODUCTION: None

PRODUCING THRU: Tubing RESERVOIR TEMPERATURE: 7 BAR. PRESS - P: Est. Bar. Press. @ 12.6 psi

GAS GRAVITY - G: Calculated with .579 % CARBON DIOXIDE: 0 % NITROGEN: 0 API GRAVITY OF LIQUID: 50

VERTICAL DEPTH (ft): 1324' TYPE WELLS CORR.: None (PROVER) SIZE: 2" Critical Flow Prover

SHUT-IN PRESSURE: SHUT IN 1/15 AT 81 (AM) TAKEN 1/15 AT 10:30 (AM) XX
 FLOW TEST STARTED 1/15 AT 81 AT 2:30 (PM) TAKEN 1/16 AT 1:45 (PM) XX

OBSERVED DATA

DURATION OF SHUT-IN: 2 wks+

SECTION OF WELL	CRITICAL SIZE (in)	PRESSURE (psia)	FLOWING TEMP. (F)	WELL HEAD TEMP. (F)	CASE WELL HEAD PRESSURE (psia)		TUBING WELL HEAD PRESSURE (psia)		DURATION (HOURS)	LIQUID PROD. (Bbls)
					psia	psia	psia	psia		
1324'	3/16"	118.0			234.5	247.1	234.5	247.1		
1324'	3/16"	118.0			175.0	187.6	118.0	130.6	23 1/2 hrs	Mist

RATE OF FLOW CALCULATIONS

FLOWING PRESSURE (psia)	EXTENSION (ft)	GRAVITY FACTOR (G)	FLOWING TEMP. (F)	PERMEATION FACTOR (F _{pv})	RATE OF FLOW (Mscf/d)	GOR	G _{sc}
130.6	6237	1.314	1.010	1.011	109.3		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

$(P_w)^2 - (P_e)^2$	$(P_w)^2 - (P_e)^2$	$\frac{P_w^2 - P_e^2}{P_e^2}$	LOG []	ANTILOG []	ANTILOG []	OPEN FLOW DELIVERABILITY EQUALS R = ANTILOG
61.1	17.1	0.28				130.9
59.9	44.0	1.3614	.1340	.584	.0782	1.1974

DELIVERABILITY: 131 Mscf/d @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

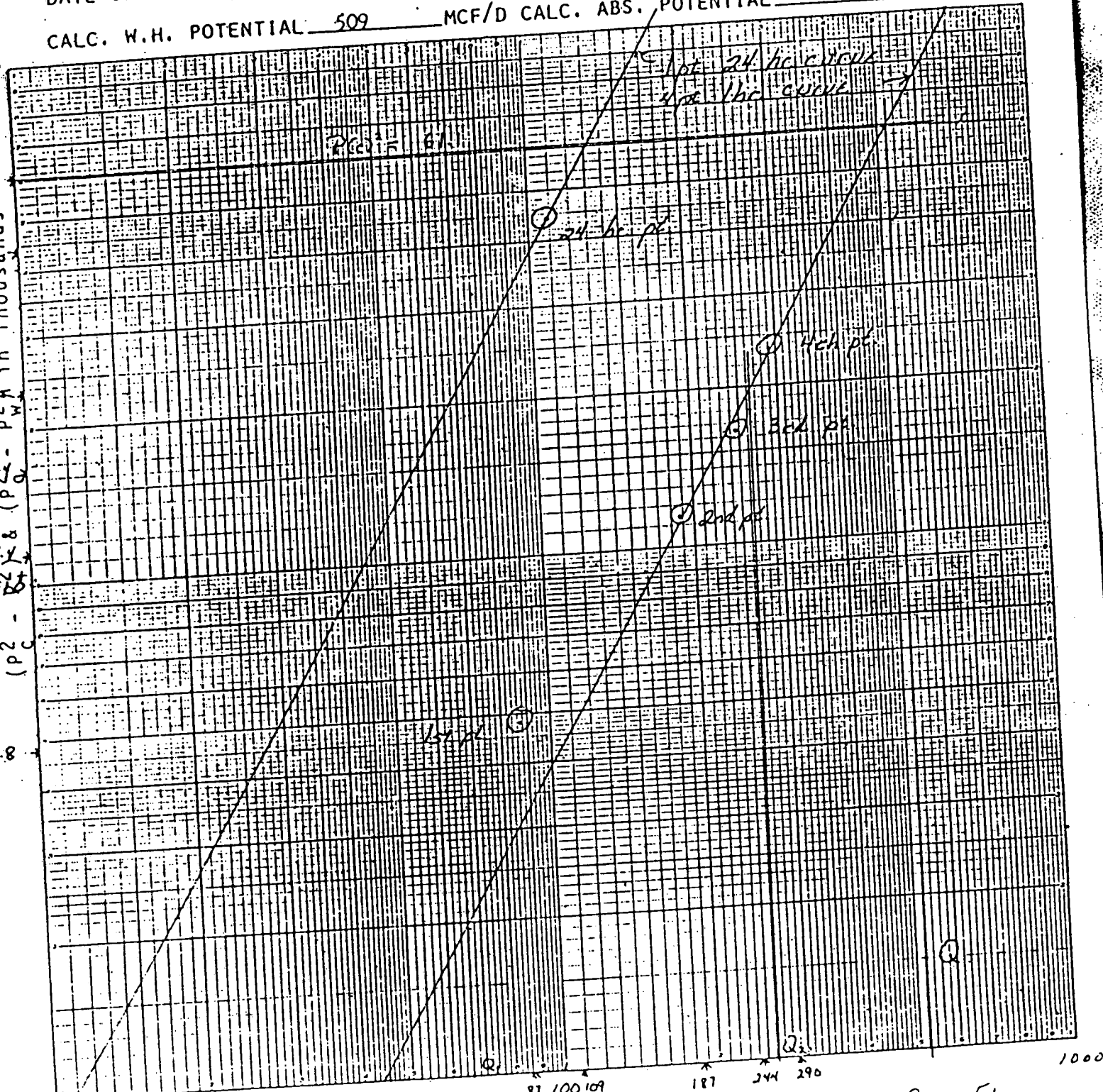
Executed this the 19th day of January, 1981

Stan Palmer
 For Company

RECEIVED
 STATE CORPORATION COMMISSION

DEC 5 1985

OPERATOR Murfin LEASE Schorzman W. NO. 1-7
 COUNTY Cheyenne FIELD No Name LOCATION SE 1/4 7-15-40a
 DATE OF TEST 1/15/81 SLOPE 'n' .584 W.H. _____ ABS. _____
 CALC. W.H. POTENTIAL 509 MCF/D CALC. ABS. POTENTIAL _____ MCF/D



$Q_2 = 253; \log = 2.4031$
 $Q_1 = 66; \log = 1.8195$
 $\log = .5836; n' = .584$

Q in MCF/Day Indicated Wellhead Open Flow =
 522 MCF/Day

Calculated W.H. Potential =
 509 MCF/Day

DEC 5 1985

KANSAS-NEBRASKA NATURAL GAS COMPANY, INC.
Back Pressure Field Data Sheet

Date of Test Jan 15 19 81

Lease Schorzman Well No. 1-7 Company Martin Oil Co.
Field No NAME County Cheyenne State KANSAS Location C-SE 1/4 7-45-40W
Production Casing 4.5 Wt. 9.5 Set at 1324 Perf. 1352' to 1315'
Tubing Size 1 1/2" 3.57 Set at ? Perf. None to
Meter run - Conn. - Shut-in Pressure 234.5 psig. Well shut in 2 hrs + hrs
Gravity Est. 529 (Before or After)
Test Run on: Casing, Tubing, Annulus (Cross out those not applicable.)
Other remarks about test set-up: Well Open 10:30 am.

Tubing OBSERVATIONS Csg.

Date	Time	Orif. Size	Flow. Temp.	Meter or Prover Pressure psig	Diff. h _w Inches of Water	Wellhead Working Pressure psig	Remarks
1-15-81	10:15a			234.5		234.5	Shut In Pressure
		2X					
1-15-81	10:45	.125	48°	228.7		231.0	Blowing Dry
	11:00	"	51°	227.0		229.0	" "
	11:15	"	50°	225.9		228.0	" "
	11:30	"	49°	224.7		226.0	" " 4.2% Drawdown 1st point
		2X					
1-15-81	11:45	.1875	53°	216.5		219.0	Blowing Dry
	12:00	"	53°	213.7		216.0	" "
	12:15	"	53°	211.9		215.0	" "
	12:30	"	54°	210.4		213.0	" " 10.3% Drawdown 2nd point
		2X					
1-15-81	12:45	.2188	55°	203.7		208.0	Blowing Dry
	1:00	"	56°	201.5		205.0	" "
	1:15	"	57°	199.5		202.0	" "
	1:30	"	55°	198.0		200.0	" " 15.6% Drawdown 3rd point
		2X					
1-15-81	1:45	.250	55°	189.4		196.0	Blowing Dry
	2:00	"	56°	186.2		190.0	" "
	2:15	"	56°	183.7		187.0	" "
	2:30	"	55°	181.2		185.0	" " 22.7% Drawdown 4th point
		2X					
1-15-81	2:30	.1875	Well put on 24hr. Stabilized Open Flow 195 (95)				
		2X					
1-16-81		.1875					
	1:30P	"	50°	118.3		175.0	Occasional Mist
	1:45P	"	50°	118.0		175.0	" " 50.3% 24hr. pt.
A sample was taken to obtain Specific Gravity and BTU, and the Well was shut-in at 1:50 P.M. 1-16-81. Stan Palmer							

Tested By JACK E. DIVAN
Witness _____