

Company Robert E. Campbell Oil & Gas Operations Lease & Well No. Osborn #1
 Elevation ---- Formation Mississippi Effective Pay - Ft. Ticket No. 12058
 Date 8/4/81 Sec. 19 Twp. 29S Range 6W County Kingman State Kansas
 Test Approved by Richard H. Robba Western Representative Jim Wondra
 Formation Test No. 1 Interval Tested from 4127 ft. to 4150 ft. Total Depth 4150 ft.
 Packer Depth 4122 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4127 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4140 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 4143 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Merckel Drilling Rig #1 Drill Collar Length - I. D. - in.
 Mud Type premix-monpac Viscosity 50 Weight Pipe Length 470 I. D. 2.7 in.
 Weight 9.1 Water Loss 11.2 cc. Drill Pipe Length 3636 I. D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 23 ft. Size 5 1/2 in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong blow throughout test. Gas to surface in eight minutes on pre-flow. See attached sheet for gas measurements.

Recovered 80 ft. of drilling mud (few specks of oil)
 Recovered 50 ft. of muddy water Chlorides 100,000 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 7:35 ~~AM~~ PM Time Started Off Bottom 11:20 ~~AM~~ PM Maximum Temperature 133°
 Initial Hydrostatic Pressure 2078 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 129 P.S.I. to (C) 131 P.S.I.
 Initial Closed In Period 45 Minutes (D) 1451 P.S.I.
 Final Flow Period 60 Minutes (E) 133 P.S.I. to (F) 133 P.S.I.
 Final Closed In Period 93 Minutes (G) 1442 P.S.I.
 Final Hydrostatic Pressure 2036 P.S.I. (H)

GAS FLOW REPORT

Date 8/4/81 Ticket 12058 Company Robert E. Campbell Oil & Gas Operations
 Well Name and No. Osborn #1 Dst No. 1 Interval Tested 4127'-4150'
 County Kingman State Kansas Sec. 19 Twp. 29S Rg. 6W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
Gas to surface in eight minutes. PRE FLOW						
	10 min.	14" of water		1½" orifice		260,000 CFPD
	20 min.	16" of water		1½" orifice		278,000 CFPD
	30 min.	18" of water		1½" orifice		295,000 CFPD

SECOND FLOW

	5 min.	28" of water		1½" orifice		368,000 CFPD
	10 min.	26" of water		1½" orifice		355,000 CFPD
	20 min.	24" of water		1½" orifice		341,000 CFPD
	30 min.	22" of water		1½" orifice		326,000 CFPD
	40 min.	20" of water		1½" orifice		311,000 CFPD
	50 min.	20" of water		1½" orifice		311,000 CFPD
	60 min.	20" of water		1½" orifice		311,000 CFPD

GAS BOTTLE

Serial No. ---- Date Bottle Filled ---- Date to be Invoiced 8/4/81

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., 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 Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (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 1½% 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 Robert E. Campbell Oil & Gas Operations

Authorized by Richard H. Robba

WESTERN TESTING CO., INC.

Pressure Data

Date 8/4/81 Recorder No. 2607 Capacity 4150 Test Ticket No. 12058
 Clock No. - Elevation - Location 4140 Ft. -
 Well Temperature 133 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2078	P.S.I.	7:35P	M
B First Initial Flow Pressure	129	P.S.I.	30	Mins. 30
C First Final Flow Pressure	131	P.S.I.	45	Mins. 45
D Initial Closed-in Pressure	1451	P.S.I.	60	Mins. 60
E Second Initial Flow Pressure	133	P.S.I.	90	Mins. 93
F Second Final Flow Pressure	133	P.S.I.		
G Final Closed-in Pressure	1442	P.S.I.		
H Final Hydrostatic Mud	2036	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 31 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	129	0	131	0	133	0	133
P 2 5	129	3	716	5	133	3	691
P 3 10	129	6	1113	10	133	6	950
P 4 15	129	9	1224	15	133	9	1069
P 5 20	129	12	1288	20	133	12	1140
P 6 25	130	15	1324	25	133	15	1188
P 7 30	131	18	1351	30	133	18	1224
P 8		21	1370	35	133	21	1251
P 9		24	1387	40	133	24	1272
P10		27	1401	45	133	27	1291
P11		30	1414	50	133	30	1307
P12		33	1424	55	133	33	1320
P13		36	1435	60	133	36	1332
P14		39	1443			39	1345
P15		42	1450			42	1353
P16		45	1451			45	1364
P17						48	1372
P18						51	1380
P19						54	1387
P20						57	1395
						60	1401

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Pressure Data

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A Initial Hydrostatic Mud	2078	P.S.I.	7:35P	M
B First Initial Flow Pressure	129	P.S.I.	30	30
C First Final Flow Pressure	131	P.S.I.	45	45
D Initial Closed-in Pressure	1451	P.S.I.	60	60
E Second Initial Flow Pressure	133	P.S.I.	90	93
F Second Final Flow Pressure	133	P.S.I.		
G Final Closed-in Pressure	1442	P.S.I.		
H Final Hydrostatic Mud	2036	P.S.I.		

PRESSURE BREAKDOWN

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 of 5 mins. and a
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 Breakdown: 15 Inc.
 of 3 mins. and a
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Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 31 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	1406		
P 2				66	1408		
P 3				69	1412		
P 4				72	1416		
P 5				75	1420		
P 6				78	1424		
P 7				81	1428		
P 8				84	1432		
P 9				87	1434		
P10				90	1437		
P11				93	1442		
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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