WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 10746

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation Elgin Sand Eff. Pay _____ Ft.

District Pratt Date 4-17-81 Customer Order No. _____

COMPANY NAME Eagle Exploration Inc. Suite 300 Kitting Bldg.
ADDRESS ~~Wichita KS~~ 107 N. Market - Wichita, Ks 67202 11W
LEASE AND WELL NO. Schwartz #1 COUNTY Barber STATE KS Sec. 31 Twp. 31S Rge. 12W

Mail Invoice To Same #1 Eagle Swartz No. Copies Requested Reg
Co. Name Address
Mail Charts To Same No. Copies Requested Reg
Address

Formation Test No. 1 Interval Tested from 3323 ft. to 3340 ft. Total Depth 3340 ft.
Packer Depth 3318 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3323 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3326 ft. Recorder Number 5673 Cap. 5400
Bottom Recorder Depth (Outside) 3329 ft. Recorder Number 1565 Cap. 4900
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Sarsee #5 Drill Collar Length 180 I. D. 2.2 in.
Mud Type Gel Viscosity 38 Weight Pipe Length — I. D. — in.
Weight 9.0 Water Loss 9.4 cc. Drill Pipe Length 3144 I. D. 3.2 in.
Chlorides 17,000 P.P.M. Test Tool Length 29 ft. Tool Size 5½ OD in.
Jars: Make WTC Serial Number 405 Anchor Length 17 ft. Size 5½ OD in.
Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4" FH in.

Blow: Strong Gas To Surface 4 min See ~~Gas Flow Report~~ attached sheet for gas measurements

Recovered 150 ft. of Watery Mud (few Oil Specks) 24,000 ppm
Recovered 180 ft. of Water (few Oil Specks) 32,000 ppm
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

RECEIVED APR 27 1981

Time On Location 11:00 A.M. / P.M. Time Pick Up Tool 1:00 A.M. / P.M. Time Off Location 10:30 A.M. / P.M.
Time Set Packer(s) 3:00 A.M. / P.M. Time Started Off Bottom 7:30 A.M. / P.M. Maximum Temperature 108

Initial Hydrostatic Pressure			(A)	1552	P.S.I.	
Initial Flow Period	Minutes	30	(B)	95	P.S.I. to (C)	163 P.S.I.
Initial Closed In Period	Minutes	60	(D)	601	P.S.I.	
Final Flow Period	Minutes	60	(E)	177	P.S.I. to (F)	218 P.S.I.
Final Closed In Period	Minutes	120	(G)	601	P.S.I.	
Final Hydrostatic Pressure			(H)	1552	P.S.I.	

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Allan E. Scott
Signature of Customer or his authorized representative

Western Representative Jeff Piotrowski

Thank you Didn't find

FIELD INVOICE

Open Hole Test	$ ✓125.00
Misrun	$ _____
Straddle Test	$ _____
Jars	$ ✓300.00
Selective Zone	$ _____
Safety Joint	$ ✓65.00
Standby	$ _____
Evaluation	$ _____
Extra Packer	$ _____
Circ. Sub.	$ _____
Mileage 35	$ ✓26.25
Fluid Sampler	$ _____
Extra Charts	$ _____
Insurance	$ _____
TOTAL	$ 1016.25

Phone 316 262-5861

P. O. Box 1599

WICHITA, KANSAS 67201

GAS FLOW REPORT

Nº 2294

Date 4-17-81 Ticket 10746 Company Eagle Exploration Inc

Well Name and No. Schwartz #1 Dst No. 1 Interval Tested 3323-40

County Barber Gage SW State KS Sec. 31 Twp. 31S Rg. 12W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
					PRE FLOW GTS 4 min.
10 min	14 PSIG	3/4" orifice			ok. 317,000 cfpd
15	19				384,000
20	28				497,000
25	31				534,000
30	31				534,000
					SECOND FLOW
5 min	42 PSIG	3/4" orifice			~~92,000~~ 662.000
10	46				~~920,000~~ c.f.p.d. 708.000
15					~~953,000~~
20					96,300
25					
30					
35					
40					
45					
50					
55					
60					

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced 4-17-81

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 _____

Authorized by _____

FORM WTC 9

WESTERN TESTING CO., INC.

Pressure Data

Date 4-1-7 Test Ticket No. 10746

Recorder No. 5673 Capacity 5400 Location 3326 Ft.

Clock No. ——— Elevation ——— Well Temperature 108 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1552 P.S.I.		Open Tool	3:00 PM	
B	First Initial Flow Pressure	104 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	164 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	607 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	178 P.S.I.		Final Closed-in Pressure	120 Mins.	120 Mins.
F	Second Final Flow Pressure	226 P.S.I.				
G	Final Closed-in Pressure	597 P.S.I.				
H	Final Hydrostatic Mud	1552 P.S.I.				

PRESSURE BREAKDOWN

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

Point Mins.		Press.
P 1	0	104
P 2	5	96
P 3	10	112
P 4	15	137
P 5	20	150
P 6	25	158
P 7	30	164
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	164
3	562
6	582
9	590
12	593
15	597
18	599
21	601
24	602
27	603
30	604
33	604
36	605
39	606
42	606
45	607
48	
51	
54	
57	
60	607

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

Point Minutes	Press.
0	178
5	189
10	194
15	197
20	201
25	203
30	207
35	210
40	215
45	216
50	221
55	223
60	226
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	226
3	519
6	544
9	557
12	562
15	566
18	569
21	571
24	574
27	577
30	579
33	581
36	583
39	585
42	586
45	587
48	587
51	588
54	589
57	589
60	590

WTC - 4

cont

WESTERN TESTING CO., INC.
Pressure Data

Date. _____ Test Ticket No. 10746

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: ____ Inc.		Breakdown: ____ Inc.		Breakdown: ____ Inc.		Breakdown: ____ 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		63				63	590
P 2		66				66	591
P 3		69				69	592
P 4		72				72	592
P 5		75				75	593
P 6		78				78	594
P 7		81				81	594
P 8		84				84	595
P 9		87				87	596
P10		90				90	596
P11		93				93	
P12		96				96	
P13		99				99	
P14		102				102	
P15		105				105	596
P16		108				108	597
P17		111				111	
P18		114				114	
P19		117				117	
P20		120				120	597

5653
DS-4

TK# 10746

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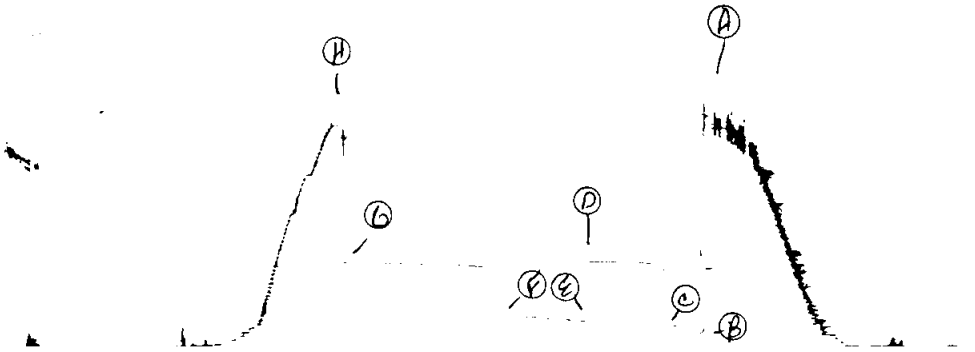

Company Eagle Exploration, Inc. Lease & Well No. #1 Eagle Swartz

Elevation - Formation Elgin Sand Effective Pay - Ft. Ticket No. 10746

Date 4/17/81 Sec. 31 Twp. 31S Range 11W County Barber State Kansas

Test Approved by Dean Scott Western Representative Jeff Piotrowski

Formation Test No. 1 Interval Tested from 3323 ft. to 3340 ft. Total Depth 3340 ft.

Packer Depth 3318 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3323 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3326 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3329 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor Sarcee Rig #5 Drill Collar Length 180 I. D. 2.2 in.

Mud Type Gel Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 9.4 cc. Drill Pipe Length 3114 I. D. 3.2 in.

Chlorides 17,000 P.P.M. Test Tool Length 29 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 405 Anchor Length 17 ft. Size 5½OD in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 4FH in.

Blow: Strong. Gas to surface in 4 minutes. See attached sheet for gas measurments.

Recovered 150 ft. of watery mud (few oil specks) Chlorides 24,000 PPM

Recovered 180 ft. of water (few oil specks) Chlorides 32,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:00 A.M./P.M. Time Started Off Bottom 7:30 A.M./P.M. Maximum Temperature 108

Initial Hydrostatic Pressure (A) 1552 P.S.I.

Initial Flow Period Minutes 30 (B) 104 P.S.I. to (C) 164 P.S.I.

Initial Closed In Period Minutes 60 (D) 607 P.S.I.

Final Flow Period Minutes 60 (E) 178 P.S.I. to (F) 226 P.S.I.

Final Closed In Period Minutes 120 (G) 597 P.S.I.

Final Hydrostatic Pressure (H) 1552 P.S.I.

GAS FLOW REPORT

Date 4/17/81 Ticket 10746 Company Eagle Exploration, Inc.

Well Name and No. #1 Eagle Swartz Dst No. 1 Interval Tested 3323-3340

County Barber State Kansas Sec. 31 Twp. 31S Rg. 12W

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 4 minutes		**PRE FLOW**			
	10 Min	14 PSIG	3/4" Orifice			317,000 C.F.P.D.
	15 Min	19 PSIG	3/4" Orifice			384,000 C.F.P.D.
	20 Min	28 PSIG	3/4" Orifice			497,000 C.F.P.D.
	25 Min	31 PSIG	3/4" Orifice			534,000 C.F.P.D.
	30 Min	31 PSIG	3/4" Orifice			534,000 C.F.P.D.
			SECOND FLOW			
	5 Min	42 PSIG	3/4" Orifice			662,000 C.F.P.D.
	10 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	15 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	20 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	25 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	30 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	35 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	40 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	45 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	50 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	55 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.
	60 Min	46 PSIG	3/4" Orifice			708,000 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 4/17/81

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 1% per month, equal to 12% 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 Eagle Exploration, Inc.

Authorized by Dean Scott

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 4/17/81 Test Ticket No. 10746

Recorder No. 5673 Capacity 5400 Location 3326 Ft.

Clock No. - Elevation - Well Temperature 108 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1552	P.S.I.
B	First Initial Flow Pressure	104	P.S.I.
C	First Final Flow Pressure	164	P.S.I.
D	Initial Closed-in Pressure	607	P.S.I.
E	Second Initial Flow Pressure	178	P.S.I.
F	Second Final Flow Pressure	226	P.S.I.
G	Final Closed-in Pressure	597	P.S.I.
H	Final Hydrostatic Mud	1552	P.S.I.

	Time Given		Time Computed	
Open Tool	3:00P	M		
First Flow Pressure	30	Mins.	30	Mins.
Initial Closed-in Pressure	60	Mins.	60	Mins.
Second Flow Pressure	60	Mins.	60	Mins.
Final Closed-in Pressure	120	Mins.	120	Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	104
P 2 5	96
P 3 10	112
P 4 15	137
P 5 20	150
P 6 25	158
P 7 30	164
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	164
3	562
6	582
9	590
12	593
15	597
18	599
21	601
24	602
27	603
30	604
33	604
36	605
39	606
42	606
45	607
48	607
51	607
54	607
57	607
60	607

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

Point Minutes	Press.
0	178
5	189
10	194
15	197
20	201
25	203
30	207
35	210
40	215
45	216
50	221
55	223
60	226

Final Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	226
3	519
6	544
9	557
12	562
15	566
18	569
21	571
24	574
27	577
30	579
33	581
36	583
39	585
42	586
45	587
48	587
51	588
54	589
57	589
60	590

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.
Pressure Data

Date 4/17/81 Test Ticket No. 10746

Recorder No. 5673 Capacity 5400 Location 3326 Ft.

Clock No. - Elevation - Well Temperature 108 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	1552 P.S.I.	Open Tool	3:00P	M		
B	First Initial Flow Pressure	104 P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	164 P.S.I.	Initial Closed-in Pressure	60	Mins.	60	Mins.
D	Initial Closed-in Pressure	607 P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E	Second Initial Flow Pressure	178 P.S.I.	Final Closed-in Pressure	120	Mins.	120	Mins.
F	Second Final Flow Pressure	226 P.S.I.					
G	Final Closed-in Pressure	597 P.S.I.					
H	Final Hydrostatic Mud	1552 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: 20 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: 40 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	590
P 2						66	590
P 3						69	592
P 4						72	592
P 5						75	593
P 6						78	594
P 7						81	594
P 8						84	595
P 9						87	596
P10						90	596
P11						93	596
P12						96	596
P13						99	596
P14						102	596
P15						105	596
P16						108	597
P17						111	597
P18						114	597
P19						117	597
P20						120	597

WTC - 4

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 10747

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation Douglas Eff. Pay _____ Ft.

District Pratt Date 4-18-81 Customer Order No. _____

COMPANY NAME Eagle Exploration Inc. Suite 300 Bitting Bldg. 107 N. Market

ADDRESS Wichita KS 67202 114

LEASE AND WELL NO. Schwartz #1 COUNTY Barber STATE KS Sec. 31 Twp. 31S Rge. ~~10W~~

Mail Invoice To Same (Co. Name) @ #1 Eagle Swartz (Address) No. Copies Requested Reg

Mail Charts To Same (Address) No. Copies Requested Reg

Formation Test No. 2 Interval Tested from 3497 ft. to 3517 ft. Total Depth 3517 ft.

Packer Depth 3492 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3497 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3500 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3503 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor Sprague #5 Drill Collar Length 180 I. D. 2.2 in.

Mud Type Gel Viscosity 38 Weight Pipe Length — I. D. — in.

Weight 9.0 Water Loss 9.4 cc. Drill Pipe Length 3288 I. D. 3.2 in.

Chlorides 17,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 405 Anchor Length 20 ft. Size 5 1/2 OD in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 4" FH in.

Blow: Strong throughout Both Flow Periods
Short Test
GTS 55 min FF TOST.M. Gasmalco measure

Recovered 220 ft. of Watery Mud Chlorides 18,000 ppm

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

APR 21 1981

Time On Location 11:00 A.M. P.M. Time Pick Up Tool 2:00 A.M. P.M. Time Off Location 11:30 A.M. P.M.

Time Set Packer(s) 4:40 A.M. P.M. Time Started Off Bottom 9:10 A.M. P.M. Maximum Temperature 110

Initial Hydrostatic Pressure			(A) 1647	P.S.I.		
Initial Flow Period	Minutes 30	(B) 40	P.S.I.	to (C) 95	P.S.I.	
Initial Closed In Period	Minutes 60	(D) 669	P.S.I.			
Final Flow Period	Minutes 60	(E) 95	P.S.I.	to (F) 109	P.S.I.	
Final Closed In Period	Minutes 120	(G) 1227	P.S.I.			
Final Hydrostatic Pressure			(H) 1620	P.S.I.		

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By _____
Signature of Customer or his authorized representative

Western Representative Jeff Pawlowski

Thank you Didn't find

FIELD INVOICE

Open Hole Test	$ 625.00
Misrun	$ _____
Straddle Test	$ _____
Jars	$ 300.00
Selective Zone	$ _____
Safety Joint	$ 65.00
Standby	$ _____
Evaluation	$ _____
Extra Packer	$ _____
Circ. Sub.	$ _____
Mileage 35	$ 26.25
Fluid Sampler	$ _____
Extra Charts	$ _____
Insurance	$ 50.00
TOTAL	$ 1066.25

WESTERN TESTING CO., INC.
Pressure Data

te. _____ Test Ticket No. 10747

corder No. _____ Capacity _____ Location _____ Ft.

ck No. _____ Elevation _____ Well Temperature _____ °F

int	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Mins.
First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Mins.
Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Mins.
Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Mins.
Second Final Flow Pressure	P.S.I.			
Final Closed-in Pressure	P.S.I.			
Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

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

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

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

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

int ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1		63				63	1215
2		66				66	1216
3		69				69	1217
4		72				72	1218
5		75				75	1219
6		78				78	1220
7		81				81	1221
8		84				84	1221
9		87				87	1222
0		90				90	1222
1		93				93	
2		96				96	
3		99				99	
4		102				102	
5		105				105	1222
6		108				108	1223
7		111				111	
18		114				114	
19		117				117	1223
20		120				120	1224

JK # 10747

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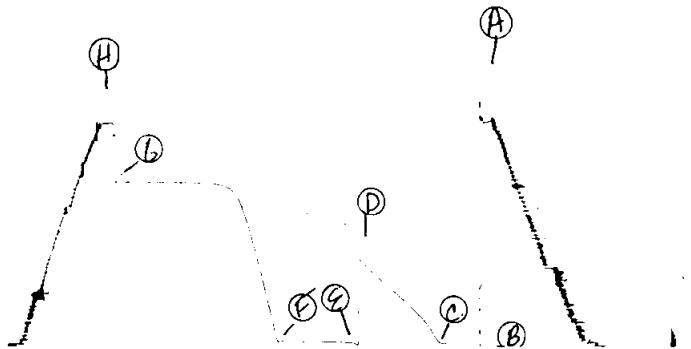

Company Eagle Exploration, Inc. Lease & Well No. #1 Eagle Swartz

Elevation - Formation Douglas Effective Pay - Ft. Ticket No. 10747

Date 4/18/81 Sec. 31 Twp. 31S Range 11W County Barber State Kansas

Test Approved by I F Cotter Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 3497 ft. to 3517 ft. Total Depth 3517 ft.

Packer Depth 3492 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3497 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3500 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3503 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor Sarcee Rig #5 Drill Collar Length 180 I. D. 2.2 in.

Mud Type Gel Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 9.4 cc. Drill Pipe Length 3288 I. D. 3.2 in.

Chlorides 17,000 P.P.M. Test Tool Length 29 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 405 Anchor Length 20 ft. Size 5½OD in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 4FH in.

Blow: Strong throughout test. Gas to surface in 55 minutes final flow period. Too small to measure.

Recovered 220 ft. of watery mud Chlorides 18,000 PPM

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:40 ~~A.M.~~ P.M. Time Started Off Bottom 9:10 ~~A.M.~~ P.M. Maximum Temperature 110

Initial Hydrostatic Pressure			(A)	1647	P.S.I.	
Initial Flow Period	Minutes	30	(B)	41	P.S.I. to (C)	92 P.S.I.
Initial Closed In Period	Minutes	60	(D)	669	P.S.I.	
Final Flow Period	Minutes	60	(E)	68	P.S.I. to (F)	98 P.S.I.
Final Closed In Period	Minutes	120	(G)	1224	P.S.I.	
Final Hydrostatic Pressure			(H)	1620	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 4/18/81 Test Ticket No. 10747

Recorder No. 5673 Capacity 5400 Location 3500 Ft.

Clock No. - Elevation - Well Temperature 110 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1647 P.S.I.	Open Tool	4:40P M	
B First Initial Flow Pressure	41 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	92 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	669 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	68 P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F Second Final Flow Pressure	98 P.S.I.			
G Final Closed-in Pressure	1224 P.S.I.			
H Final Hydrostatic Mud	1620 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	41
P 2 5	41
P 3 10	55
P 4 15	63
P 5 20	71
P 6 25	77
P 7 30	92
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	92
3	117
6	169
9	208
12	243
15	273
18	303
21	333
24	361
27	391
30	415
33	443
36	464
39	492
42	516
45	544
48	568
51	593
54	626
57	656
60	669

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

Point Minutes	Press.
0	68
5	85
10	90
15	92
20	94
25	95
30	96
35	96
40	96
45	96
50	97
55	97
60	98

Final Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	98
3	197
6	325
9	445
12	562
15	669
18	787
21	893
24	981
27	1059
30	1122
33	1157
36	1178
39	1192
42	1200
45	1204
48	1208
51	1211
54	1212
57	1213
60	1214

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.

Pressure Data

Date 4/18/81 Test Ticket No. 10747

Recorder No. 5673 Capacity 5400 Location 3500 Ft.

Clock No. - Elevation - Well Temperature 110 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	1647 P.S.I.	Open Tool	4:40P	M		
B	First Initial Flow Pressure	41 P.S.I.	First Flow Pressure	30	Mins.	30	Mins.
C	First Final Flow Pressure	92 P.S.I.	Initial Closed-in Pressure	60	Mins.	60	Mins.
D	Initial Closed-in Pressure	669 P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E	Second Initial Flow Pressure	68 P.S.I.	Final Closed-in Pressure	120	Mins.	120	Mins.
F	Second Final Flow Pressure	98 P.S.I.					
G	Final Closed-in Pressure	1224 P.S.I.					
H	Final Hydrostatic Mud	1620 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: 20 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: 40 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	1215
P 2						66	1216
P 3						69	1217
P 4						72	1218
P 5						75	1219
P 6						78	1220
P 7						81	1221
P 8						84	1221
P 9						87	1222
P10						90	1222
P11						93	1222
P12						96	1222
P13						99	1222
P14						102	1222
P15						105	1222
P16						108	1223
P17						111	1223
P18						114	1223
P19						117	1223
P20						120	1224

WESTERN TESTING CO., INC.

Pressure Data

Date 4-18 Test Ticket No. 10747

Recorder No. 5673 Capacity 5400 Location 3500 Ft.

Clock No. ——— Elevation ——— Well Temperature 110 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1647	P.S.I.	Open Tool	4:40 PM	
B	First Initial Flow Pressure	41	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	92	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	669	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	68	P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F	Second Final Flow Pressure	98	P.S.I.			
G	Final Closed-in Pressure	1224	P.S.I.			
H	Final Hydrostatic Mud	1620	P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.		Press.
P 1	0	41
P 2	5	41
P 3	10	55
P 4	15	63
P 5	20	71
P 6	25	77
P 7	30	92
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	92
3	117
6	169
9	208
12	243
15	273
18	303
21	333
24	361
27	391
30	415
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39	492
42	516
45	544
48	568
51	593
54	626
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60	669

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Breakdown: 12 Inc.
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final inc. of 0 Min.

Point Minutes	Press.
0	68
5	85
10	90
15	92
20	94
25	95
30	96
35	(
40	)
45	96
50	97
55	97
60	98
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	98
3	197
6	325
9	445
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27	1059
30	1122
33	1157
36	1178
39	1192
42	1200
45	1204
48	1208
51	1211
54	1212
57	1213
60	1214

WTC - 4

cont