

Company Graves Drilling Company, Inc. Lease & Well No. #1 Grigsby
 Elevation ----- Formation Mississippi Effective Pay -- Ft. Ticket No. 16434
 Date 10/7/82 Sec. 29 Twp. 32S Range 9W County Harper State Kansas
 Test Approved by Ken Hamlin Western Representative Jeff Piotrowski
 Formation Test No. 1 Interval Tested from 4330 ft. to 4369 ft. Total Depth 4369 ft.
 Packer Depth 4325 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4330 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4359 ft. Recorder Number 1565 Cap. 4900
 Bottom Recorder Depth (Outside) 4362 ft. Recorder Number 1560 Cap. 4500
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Graves Drlg. Rig #1 Drill Collar Length 90 I. D. 2.2 in.
 Mud Type gel Viscosity 43 Weight Pipe Length - I. D. - in.
 Weight 9.4 Water Loss 9.6 cc. Drill Pipe Length 4220 I. D. 3.8 in.
 Chlorides 16,500 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 39 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 1/2 FH in.

Blow: Strong blow. Gas to surface in one minute. See attached sheet for gas measurements.

Recovered 5 ft. of clean oil
 Recovered 5 ft. of oil cut water Chlorides 49,000 ppm
 Recovered ----- ft. of -----
 Recovered ----- ft. of -----
 Recovered ----- ft. of -----
 Remarks: -----

Time Set	Packer(s)	8:25 A.M.	Time Started	Off	Bottom	10:55 A.M.	Maximum	Temperature
Initial	Hydrostatic Pressure	.....	.....	(A)	2283	P.S.I.		110°
Initial	Flow Period	.....	Minutes	15 (B)	779	P.S.I. to (C)	782	P.S.I.
Initial	Closed In Period	.....	Minutes	45 (D)	1416	P.S.I.		
Final	Flow Period	.....	Minutes	45 (E)	806	P.S.I. to (F)	786	P.S.I.
Final	Closed In Period	.....	Minutes	45 (G)	1381	P.S.I.		
Final	Hydrostatic Pressure	.....	.....	(H)	2197	P.S.I.		

GAS FLOW REPORT

Date 10/7/82 Ticket 16434 Company Graves Drilling Company, Inc.
 Well Name and No. Grigsby #1 Dst No. 1 Interval Tested 4330'-4369'
 County Harper State Kansas Sec. 29 Twp. 32S Rg. 9W

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

5 min.	40PSIG	1½" orifice			3,155,000 CFPD
10 min.	49 PSIG	1½" orifice			3,692,000 CFPD
15 min.	51 PSIG	1½" orifice			3,811,000 CFPD

SECOND FLOW

GAS BOTTLE

Serial No. ---- Date Bottle Filled ---- Date to be Invoiced 10/7/82

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

Graves Drilling Co., Inc.

Authorized by -

Ken Hamlin

WESTERN TESTING CO., INC.

Pressure Data

Date 10/7/82
 Recorder No. 1565 Capacity 4900
 Clock No. --- Elevation ---
 Well Temperature 110 °F

Test Ticket No. 16434
 Location 4359 Ft.
 Time Given 8:25P M
 Time Computed 15 Mins. 15 Mins.
 45 Mins. 45 Mins.
 45 Mins. 45 Mins.
 45 Mins. 45 Mins.

Point	Pressure			
A Initial Hydrostatic Mud	2283	P.S.I.	Open Tool	
B First Initial Flow Pressure	779	P.S.I.	First Flow Pressure	
C First Final Flow Pressure	782	P.S.I.	Initial Closed-in Pressure	
D Initial Closed-in Pressure	1416	P.S.I.	Second Flow Pressure	
E Second Initial Flow Pressure	806	P.S.I.	Final Closed-in Pressure	
F Second Final Flow Pressure	786	P.S.I.		
G Final Closed-in Pressure	1381	P.S.I.		
H Final Hydrostatic Mud	2197	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 3 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: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

Point
 Mins. Press.
 P 1 0 779
 P 2 5 779
 P 3 10 781
 P 4 15 782
 P 5
 P 6
 P 7
 P 8
 P 9
 P10
 P11
 P12
 P13
 P14
 P15
 P16
 P17
 P18
 P19
 P20

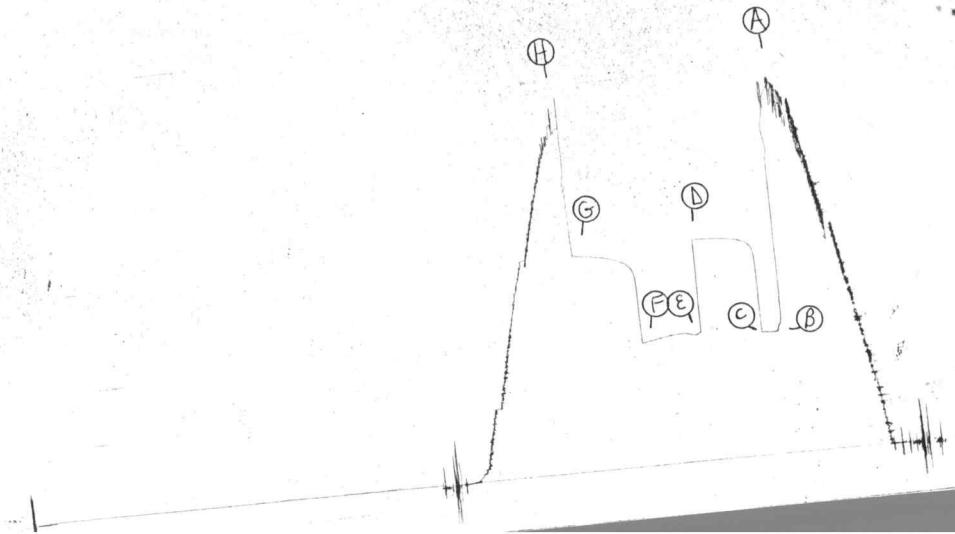
Point
 Minutes Press.
 0 782
 3 1345
 6 1368
 9 1381
 12 1389
 15 1396
 18 1400
 21 1403
 24 1406
 27 1409
 30 1411
 33 1412
 36 1413
 39 1414
 42 1415
 45 1416

Point
 Minutes Press.
 0 806
 5 807
 10 819
 15 821
 20 818
 25 814
 30 807
 35 797
 40 791
 45 786

Point
 Minutes Press.
 0 786
 3 1282
 6 1305
 9 1319
 12 1332
 15 1340
 18 1346
 21 1352
 24 1357
 27 1362
 30 1367
 33 1370
 36 1373
 39 1376
 42 1379
 45 1381

1565
DST #1

TKT. # 16434
I





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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

OK
No. 16434

Elevation _____ Formation Miss Eff. Pay _____ Ft. _____

District 10/7/82 Path Date 10/7/82 Customer Order No. _____

COMPANY NAME Graves ~~Ex-Drilg. Co., Inc.~~

ADDRESS 910 Union Center, Wichita KS

LEASE AND WELL NO. Grigsby #1 COUNTY Harper STATE KS Sec. 29 Twp. 32s Rge. 9w

Mail Invoice To Same #1 GRIGSBY No. Copies Requested Reg
Co. Name Address

Mail Charts To Same Address No. Copies Requested Reg
Address

Formation Test No. 1 Interval Tested From 4330 ft. to 4369 ft. Total Depth 4349 ft.

Packer Depth 4325 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4330 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4359 ft.

Bottom Recorder Depth (Outside) 4362 ft.

Below Straddle Recorder Depth ft.

Drilling Contractor Graves #1

Mud Type Gel Viscosity 43

Weight 9.4 Water Loss 9.4 cc.

Chlorides 16,500 P.P.M.

Jars: Make Serial Number —

Did Well Flow? No Reversed Out No

Blow: Strong GTS 1min - See ~~Estimated flow report but for~~
~~gas measurements~~

Recovered 5 ft. of Clean Oil

Recovered 5 ft. of Oil Cut Water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: CHLORIDES 16,500 P.P.M.

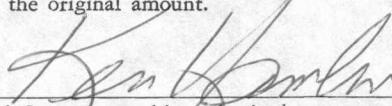
RECEIVED
OCT 11 1982

Time On Location	3:00	A.M. P.M.	Time Pick Up Tool	6:30	A.M. P.M.	Time Off Location	1:30	A.M. P.M.
Time Set Packer(s)	8:25	A.M. P.M.	Time Started Off Bottom	10:55	A.M. P.M.	Maximum Temperature	110°	
Initial Hydrostatic Pressure			(A)	2295	P.S.I.			
Initial Flow Period			Minutes 15	(B) 779	P.S.I. to (C)	779	P.S.I.	
Initial Closed In Period			Minutes 45	(D) 1408	P.S.I.			
Final Flow Period			Minutes 45	(E) 804	P.S.I. to (F)	779	P.S.I.	
Final Closed In Period			Minutes 45	(G) 1371	P.S.I.			
Final Hydrostatic Pressure			(H)	2209	P.S.I.			

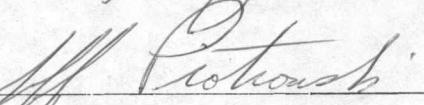
COMPANY TERMS

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.

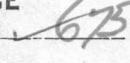
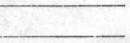
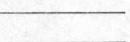
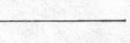
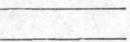
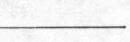
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By 

Signature of Customer or his authorized representative

Western Representative 

FIELD INVOICE

Open Hole Test	\$ 
Misrun	\$ 
Straddle Test	\$ 
Jars	\$ 
Selective Zone	\$ 
Safety Joint	\$ 
Standby	\$ 
Evaluation	\$ 
Extra Packer	\$ 
Circ. Sub.	\$ 
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$



Nº 4080

GAS FLOW REPORT

Date 10/7/82 Ticket 16434 Company Graves Ets/
Well Name and No. Grigsby #1 Dst No. 1 Interval Tested 4330-69
County Harper State KS Sec. 28 Twp. 325 Rg. 9 W

SECOND FLOW

5	51	1 1/2		OK	3,811,000	381,100
					Started & Blowing Med	10 min. into FF.

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 _____

WESTERN TESTING CO., INC.

Pressure Data

Date 10-7Recorder No. 1565Capacity 4900Test Ticket No. 16434Clock No. — — — —Elevation — — — —Location 4359 Ft.Well Temperature 110 °F

Point

	Pressure	
A Initial Hydrostatic Mud	<u>2283</u>	P.S.I.
B First Initial Flow Pressure	<u>779</u>	P.S.I.
C First Final Flow Pressure	<u>782</u>	P.S.I.
D Initial Closed-in Pressure	<u>1416</u>	P.S.I.
E Second Initial Flow Pressure	<u>806</u>	P.S.I.
F Second Final Flow Pressure	<u>786</u>	P.S.I.
G Final Closed-in Pressure	<u>1381</u>	P.S.I.
H Final Hydrostatic Mud	<u>2197</u>	P.S.I.

Time Given	Time Computed
<u>8:25 P M</u>	
<u>15</u> Mins.	<u>15</u> Mins.
<u>45</u> Mins.	<u>45</u> Mins.
<u>45</u> Mins.	<u>45</u> Mins.
<u>45</u> Mins.	<u>45</u> Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 3 Inc.
of 5 mins. and a
final inc. of 0 Min.Point
Mins.

Point	Press.
P 1 0	<u>779</u>
P 2 5	<u>779</u>
P 3 10	<u>781</u>
P 4 15	<u>782</u>
P 5 20	
P 6 25	
P 7 30	
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: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.Point
Minutes

Point	Press.
0	<u>782</u>
3	<u>1345</u>
6	<u>1368</u>
9	<u>1381</u>
12	<u>1389</u>
15	<u>1396</u>
18	<u>1400</u>
21	<u>1403</u>
24	<u>1406</u>
27	<u>1409</u>
30	
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure

Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.Point
Minutes

Point	Press.
0	<u>806</u>
5	<u>807</u>
10	<u>819</u>
15	<u>821</u>
20	<u>818</u>
25	<u>814</u>
30	<u>807</u>
35	<u>797</u>
40	<u>791</u>
45	<u>786</u>
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In

Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.Point
Minutes

Point	Press.
0	<u>786</u>
3	<u>1282</u>
6	<u>1305</u>
9	<u>1319</u>
12	<u>1332</u>
15	<u>1340</u>
18	<u>1346</u>
21	<u>1352</u>
24	<u>1357</u>
27	<u>1362</u>
30	<u>1367</u>
33	<u>1370</u>
36	<u>1373</u>
39	<u>1376</u>
42	<u>1379</u>
45	<u>1381</u>
48	
51	
54	
57	
60	