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123-0544
JOHNSTON TESTERS, INC.

OFFICES: Houston, Texas - Los Angeles, Calif. Test Ticket No. 16594

Date 10-29-54 Customer's Order No. _____
COMPANY Houser Drilling Company
LEASE AND WELL No. O. E. Doty #1
FIELD W.C. COUNTY Weld STATE Colo.
Mail Inv. To 917 Wash. Ave. Loveland Colo.
Mail Charts To same

Formation Test No. <u>2</u> OK? <u>1</u> Misrun? _____	Casing Test No. _____ OK? _____ Misrun? _____
Total Depth <u>6656'</u>	Total (or PB) Depth _____
Interval Tested <u>6625'</u> to <u>6636'</u>	Perforations _____ to _____
Size: Main Hole <u>8-3/4"</u> Rat Hole <u>7-7/8"</u>	Size Casing _____ Liner _____
Packer(s) Set At <u>6625' - 6636'</u>	Packer(s) Set At _____
Packer Size <u>6-5/8"</u> Type <u>B.T.</u>	Packer Size _____ Type _____
Anchor Length <u>11' between 20' below</u> Size <u>4 1/2"</u> Type <u>O.D.</u>	Anchor Length _____ Size _____
Tool Size <u>3 1/2" F.H.</u> Tool Joint Size <u>4 1/2" F.H.</u>	Tool Size _____ Tool Joint Size _____

Fluid Cushion none Kind _____ Mud Weight - Viscosity -
PRESSURE RECORDERS: Top Make MOJ Cap 4800 No; B-66 Bottom Make _____ Cap _____ No. _____
Below Straddle Top Make MOJ Cap 3000 No; 471 Bottom Make _____ Cap _____ No. _____

RESULTS
Set Packer 2:03 M; Tool Open 1 Hrs. 30 Min: Shut-in _____ Hrs. 20 Min. Packer Set 1 Hrs. 50 Min.
Size Choke _____ Max. Press. psi _____ Time _____ Description (Rate) of Flow _____

Surface 3/4" _____

Information _____

Blow Weak to surface - increased to fair in 10 mins. Bottom Choke Size 1/2"

Max. Surface Press _____ # Did Well Flow? Yes _____ No X; Fluid Rise: 1566'

Oil, _____ Gas, 1566' Water, _____ Mud, _____ Sand

REMARKS _____

Max. Temp. °F _____

Type Circulating Tool none Pump Press. none Hrs. _____ Min. _____

Bottom Hole Sample Bomb no Jar: Size 3 1/2" Make MOJ No. 337

Extra Equipment Homco safety joint (2nd run) - jars - testing between packers

Was Choke Plugged? no Perf. Plugged? no Other? no Did Mud Fall During Test? no

No. Rubbers Damaged? one Tool Rental Time 14 Operator's Time _____

JOHNSTON TESTERS, INC. shall not be liable for damage of any kind to the property or personnel of the party for whom a test is made, or for any loss suffered or sustained directly or indirectly, through or in the course of the use of its equipment, or its statement or opinion concerning the result of any test, all of which loss or damage is assumed by the customer. Tools lost or damaged in the hole shall be paid for at the cost by the party for whom test is made.

OPERATOR:

J. A. Williams

TEST APPROVED BY:

W. H. Tyler

No. of Copies Requested 6



00709307

LEASE AND WELL NO.

O. E. Doty #1

FORMATION TEST NO. 2

J. B. FULLER
PETROLEUM GEOLOGIST

SUITE 502 — KITTREDGE BLDG.
511 - 16TH STREET
DENVER, COLORADO
PHONE: ACOMA 2-2570

October 30, 1954

GEOLOGICAL REPORT

Houser Drilling Company	#1 O.E. Doty
Location: NW NW NW	Section 2 T7N R59W
Weld County,	Colorado
Wildcat	
Elevation:	4887 Ground
	4897 K.B.
Spud:	October 20, 1954
Completed:	October 30, 1954
Total Depth	6738 feet.
Surface Casing	199 feet of 10 3/4 inch set @ 209'
	with 150 sacks.

Well was fully evaluated and found to be dry and abandoned.

35 sacks of cement was set as a plug from 6651 to 6540. 10 sacks were set at the bottom of the surface pipe; 5 sacks at top of the hole.

ELECTRIC LOG

Schlumberger electric log was conducted from the base of the surface to the total depth of 6738 feet. Drillers and Schlumberger measurements were the same, therefore cores and tests can be computed without any correction. There was no micro-log run. The electric survey was able to reach total depth.

Electric log correlations indicate this subject well is twenty-four (24') feet structurally higher than Shell's No. 1 O. Castor located one mile NW in SW NW NW of Section 34 T8N R59W. This position seemed to place the subject well in a favorable portion of the structure for the same hydrocarbon accumulation as found in the aforementioned Shell well, however as water was found in the sand there has to be separation between the two wells.

Electric log identified that all prospective zones were fully evaluated and that no other horizon capable of production was missed.

SUMMARY OF OIL SHOWS

Subject well proved to be barren of hydrocarbon content in any commercial form as evidenced by diamond cores and a drill stem test. Cores from 6610 to 6636 (see core record #1) indicated seven feet of grey permeable sand that contained large to medium vertical fractures with light oil stain on fracture surface. However there were no visible stain in the sand, but the sand did have spotty fluorescence.

Four feet of reworked shale, sand and coal conglomerate from 6725 to 6729 (see core record #3 and #4) contained slight oil odor, but had no reservoir conditions.

There were no other indications of accumulated hydrocarbons in the well.

SUMMARY OF FORMATIONS

	<u>SAMPLES</u>	<u>ELECTRIC LOG.</u>
Niobrara	5870 (-973)	5886 (-989)
Timpos	6130 (-1233)	6134 (-1227)
Carlile	6185 (-1288)	6188 (-1291)
Greenhorn	6415 (-1518)	6418 (-1521)
Bentonite Marker	6510 (-1613)	6516 (-1619)
"D"	6621 (-1724)	6622 (-1725)
"J"	6710 (-1813)	6710 (-1813)

CORE RECORD

(See Detailed Core Record Attached)

1. 6610 to 6636: Recovered 26 feet - "D"
2. 6636 to 6656: Recovered 20 feet - "D"
3. 6709 to 6726: Recovered 17 feet - "J"
4. 6726 to 6738: Recovered 12 feet - "J"

DRILL STEM TESTS
(see core record attached)

DST #1 6625 to 6636: Failed

DST #2 6625 to 6636

DRILL STEM TESTS

D.S.T. #1

6625 to 6636

Bottom of 6 1/8" core hole was 6656 and test was attempted with two 5" packers stradling the above intervals.

Tool lacked seven feet from reaching total depth. Tool was spudded three or four times. It is believed a fractured piece of hard sand fell out of the side of the rat hole and blocked same. Packers were set and tool slid to bottom, however, the assumed fractured piece of sand cut the top packer and test failed.

6 1/8" Rat hole was reamed with 7 7/8" bit.

D.S.T. #2

6625 to 6636

Tested with two 6 5/8" packers stradling above interval. Tool open 1 1/2 hours; weak blow increasing to good blow within ten minutes. Good blow throughout until last 15 minutes when decreased to fair. Pulled tool and recovered 1566' of salt water.

I.F.	0#
F.F.	625#
SIP	1700#
H.H.	3675#

CORE RECORD

Core #1 6610 to 6636 Recovered 26'

6610 to 6611	Cutting time 20 minutes. 6,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6611 to 12	Cutting time 12 minutes. 6,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6612-13	Cutting time 11 minutes. 6,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6613-14	Cutting time 17 minutes. 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6614-15	Cutting time 14 minutes. 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6615-16	Cutting time 14 minutes. 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6616-17	Cutting time 15 minutes. 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6617-18	Cutting time 13 minutes, 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6618-19	Cutting time 13 minutes, 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6619-20	Cutting time 13 minutes, 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6620-21	Cutting time 9 minutes, 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6621-22	Cutting time 15 minutes, 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6622-23	Cutting time 8 minutes, 14,000# weight. Black to dark grey dense micaceous shale with fissile shale lenses.
6623-24	Cutting time 10 minutes, 14,000# weight. Silty dark grey very fine grain tight sand with dense shale

Core #1 continued:

- 6624-25 Cutting time 9 minutes, 14,000# weight.
Silty dark grey very fine grain tight sand with dense shale lenses, no show.
- 6625-26 Cutting time 5 minutes, 14,000# weight.
6" silty dark grey very fine grain tight sand with dense shale lenses, no show.
6" light to dark grey reworked sand and shale with dense shale lenses.
- 6626-27 Cutting time 5 minutes, 14,000# weight.
Light to dark grey reworked sand and shale with dense shale lenses.
- 6627-28 Cutting time 4 minutes, 14,000# weight
Light to dark grey reworked sand and shale with dense shale lenses.
- 6628-29 Cutting time 3 minutes, 14,000# weight.
Light to dark grey reworked sand and shale with dense shale lenses.
- 6629-30 Cutting time 2 minutes, 14,000# weight
Fine to medium grain grey permeable sand with thin carbonaceous lenses. Small to medium vertical fractures with light oil stain on fracture surface. No visible stain in sand. No fluorescence brackish odor.
- 6630-31 Cutting time 1 minutes, 14,000# weight.
Fine to medium grain grey permeable sand with thin carbonaceous lenses. Small to medium vertical fractures with light oil stain on fracture surface. No visible stain in sand. No fluorescence brackish odor.
- 6631-32 Cutting time 2 minutes, 14,000# weight.
Fine to medium grain grey permeable sand with thin carbonaceous lenses. Small to medium vertical fractures with light oil stain on fracture surface. No visible stain in sand; contained spotty fluorescence and weak gas odor.
- 6632-33 Cutting time 4 minutes, 14,000# weight.
Fine to medium grain grey permeable sand with thin carbonaceous lenses. Small to medium vertical fractures with light oil stain on fracture surface. No visible stain in sand; contained spotty fluorescence and weak gas odor.
- 6633-34 Cutting time 4 minutes, 14,000# weight.
Fine to medium grain grey permeable sand with thin carbonaceous lenses. Small to medium vertical fractures with light oil stain on fracture surface. No visible stain in sand. No fluorescence and brackish odor.

Core #1 continued:

- 6634-35 Cutting time 12 minutes, 14,000# weight.
Fine to medium grain grey permeable sand with thin carbonaceous lenses. Small to medium vertical fractures with light oil stain on fracture surface. No visible stain in sand; contained spotty fluorescence and a weak gas odor.
- 6635-36 Cutting time 8 minutes, 14,000# weight.
Fine to medium grain grey permeable sand with thin carbonaceous lenses. Small to medium vertical fractures with light oil stain on fracture surface. No visible stain in sand; contained spotty fluorescence and a weak gas odor.

CORE #2

6636-6656 Recovered 20 feet.

- 6636-37 Cutting time 6 minutes, 8,000# weight.
Fine to medium grain grey permeable sand. No visible fractures. No hydrocarbon content, appears wet.
- 6637-38 Cutting time 13 minutes, 10,000# weight.
Fine to medium grain grey permeable sand. No visible fractures. No hydrocarbon content; appears wet.
- 6638-39 Cutting time 10 minutes, 12,000# weight.
Fine to medium grain grey permeable sand. No visible fractures. No hydrocarbon content appears wet.
- 6639-40 Cutting time 7 minutes, 12,000# weight.
Fine to medium grain grey permeable sand. No visible fractures. No hydrocarbon content; appears wet.
- 6640-41 Cutting time 6 minutes, 12,000# weight.
Fine to medium grain grey permeable sand. No visible fractures. No hydrocarbon content; appears wet.
- 6641-42 Cutting time 4 minutes, 12,000# weight.
Fine to medium grain grey permeable sand. No visible fractures. No hydrocarbon content; appears wet.
- 6642-43 Cutting time 8 minutes, 12,000# weight.
Very dense glazed quartzite appearing to have crystalline structure. Small vertical fractures; no show of hydrocarbons.
- 6643-44 Cutting time 7 minutes, 12,000# weight.
Very dense glazed quartzite appearing to have crystalline structure. Small vertical fractures; no show of hydrocarbons.
- 6644-45 Cutting time 9 minutes, 12,000# weight.
Dense grey sandy to micaceous shale with thin tight sand lenses. No show.
- 6645-46 Cutting time 11 minutes, 12,000# weight. no show.
Dense grey sandy to micaceous shale with thin tight sand lenses.

Core #2 continued:

- 6646-47 Cutting time 14 minutes, 12,000# weight.
Dense grey sandy to micaceous shale with thin tight sand
lenses. No show.
- 6647-48 Cutting time 7 minutes, 12,000# weight.
Dense grey sandy to micaceous shale with thin tight sand
lenses. No show.
- 6648-49 Cutting time 8 minutes, 12,000# weight.
Dense grey sandy to micaceous shale with thin tight sand
lenses. No show.
- 6649-50 Cutting time 12 minutes, 12,000# weight.
Black fissile shale.
- 6650-51 Cutting time 6 minutes, 12,000# weight.
Alternating dense black micaceous shale and black fissile shale
- 6651-52 Cutting time 6 minutes, 12,000# weight.
Alternating dense black micaceous shale and black fissile shale
- 6652-53 Cutting time 14 minutes, 12,000# weight.
Alternating dense black micaceous shale and black fissile shale.
- 6653-54 Cutting time 10 minutes, 12,000# weight.
Alternating dense black micaceous shale and black fissile shale.
- 6654-55 Cutting time 13 minutes, 12,000# weight.
Alternating dense black micaceous shale and black fissile shale.
- 6655-56 Cutting time 10 minutes, 12,000# weight.
Alternating dense black micaceous shale and black fissile shale.

CORE #3

6709 to 6726 Recovered 17 feet.

- 6709-10 Cutting time 21 minutes, 6,000# weight.
Dense black shale.
- 6710-11 Cutting time 11 minutes, 8,000# weight.
Dense black shale.
- 6711-12 Cutting time 13 minutes, 10,000# weight.
6" Dense black shale.
3" Light tan bentonite.
3" Dense black shale.
- 6712-13 Cutting time 6 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles,
nodules and lenses, no show of hydrocarbons.
- 6713-14 Cutting time 7 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles,
Nodules and lenses, no show of hydrocarbons.
- 6714-15 Cutting time 5 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles,
Nodules and lenses, no show of hydrocarbons.
- 6715-16 Cutting time 4 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles,
Nodules and lenses, no show of hydrocarbons.
- 6716-17 Cutting time 3 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles,
Nodules and lenses, no show of hydrocarbons.
- 6717-18 Cutting time 3 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles,
Nodules and lenses, no show of hydrocarbons.
- 6718-19 Cutting time 3 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles,
Nodules and lenses, no show of hydrocarbons.
- 6719-20 Cutting time 3 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles.
Nodules and lenses, no show of hydrocarbons.
- 6720-21 Cutting time 4 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles.
Nodules and lenses, no show of hydrocarbons.
- 6721-22 Cutting time 4 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles.
Nodules and lenses, no show of hydrocarbons.
- 6722-23 Cutting time 4 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles.
Nodules and lenses, no show of hydrocarbons.

Core #3 continued.

- 6723-24 Cutting time 7 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles.
Nodules and lenses, no show of hydrocarbons.
- 6724-25 Cutting time 4 minutes, 12,000# weight.
Medium grey sand reworked with small shale particles.
Nodules and lenses, no show of hydrocarbons.
- 6725-26 Cutting time 11 minutes, 12,000# weight.
Black reworked carbonaceous shale and sand lenses in a
crystallized coal conglomeration. Faint oil odor, fluorescence
in sand lenses and nodules.

CORE #4

6726-6738 Recovered 12 feet.

- 6726-27 Cutting time 19 minutes, 8,000# weight.
Black reworked calcareous shale and sand lenses in a
crystallized coal conglomeration. Weak oil odor and fluorescence
in sand particles.
- 6727-28 Cutting time 22 minutes, 10,000# weight.
Black reworked calcareous shale and sand lenses in a
crystallized coal conglomeration. Weak oil odor and
fluorescence in sand particles.
- 6728-29 Cutting time 19 minutes, 10,000# weight.
Black reworked calcareous shale and sand lenses in a
crystallized coal conglomeration. Weak oil odor and
fluorescence in sand particles.
- 6729-30 Cutting time 16 minutes, 12,000# weight.
Light grey friable to dense fine to medium grain sand with
carbonaceous lenses and reworked sandy shale lenses.
- 6730-31 Cutting time 18 minutes, 12,000# weight.
Light grey friable to dense fine to medium grain sand with
carbonaceous lenses and reworked sandy shale lenses.
- 6731-32 Cutting time 10 minutes, 12,000# weight.
Light grey friable to dense fine to medium grain sand with
carbonaceous lenses and reworked sandy shale lenses.
- 6732-33 Cutting time 20 minutes, 12,000# weight.
Friable fine to medium grain quartz sand. Good permeability
and porosity; very wet, brackish taste. Large to medium vertical
and horizontal fractures.
- 6733-34 Cutting time 23 minutes, 12,000# weight.
Friable fine to medium grain quartz sand. Good permeability
and porosity; very wet, brackish taste. Large to medium vertical
and horizontal fractures.

Core #4 continued.

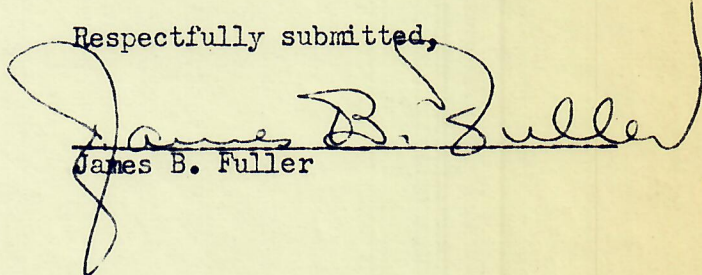
- 6734-35 Cutting time 19 minutes, 12,000# weight
Friable fine to medium grain quartz sand. Good permability
and porosity; very wet, brackish taste. Large to medium vertical
and horizontal fractures.
- 6735-36 Cutting time 22 minutes, 12,000# weight.
Friable fine to medium grain quartz sand. Good permability
and porosity; very wet, brackish taste. Large to medium vertical
and horizontal fractures.
- 6736-37 Cutting time 22 minutes, 12,000# weight
Friable fine to medium grain quartz sand. Good permability
and porosity; very wet, brackish taste. Large to medium vertical
and horizontal fractures.
- 6737-38 Cutting time 23 minutes, 12,000# weight.
Friable fine to medium grain quartz sand. Good permability
and porosity; very wet, brackish taste. Large to medium vertical
and horizontal fractures.

RECOMMENDATIONS

On the basis of cores, drill stem tests (see core and drill stem test record) and electric log, it was recommended, on location, to plug and abandon this Houser Drilling Company #1 O.E. Doty. The prospective zones were fully evaluated and none were found capable of production.

All recommendations were discussed with Mr. Houser and Mr. Tyler and ~~all~~ were in agreement that full evaluation had been achieved of the horizons inspected and that all were barren of commercial production.

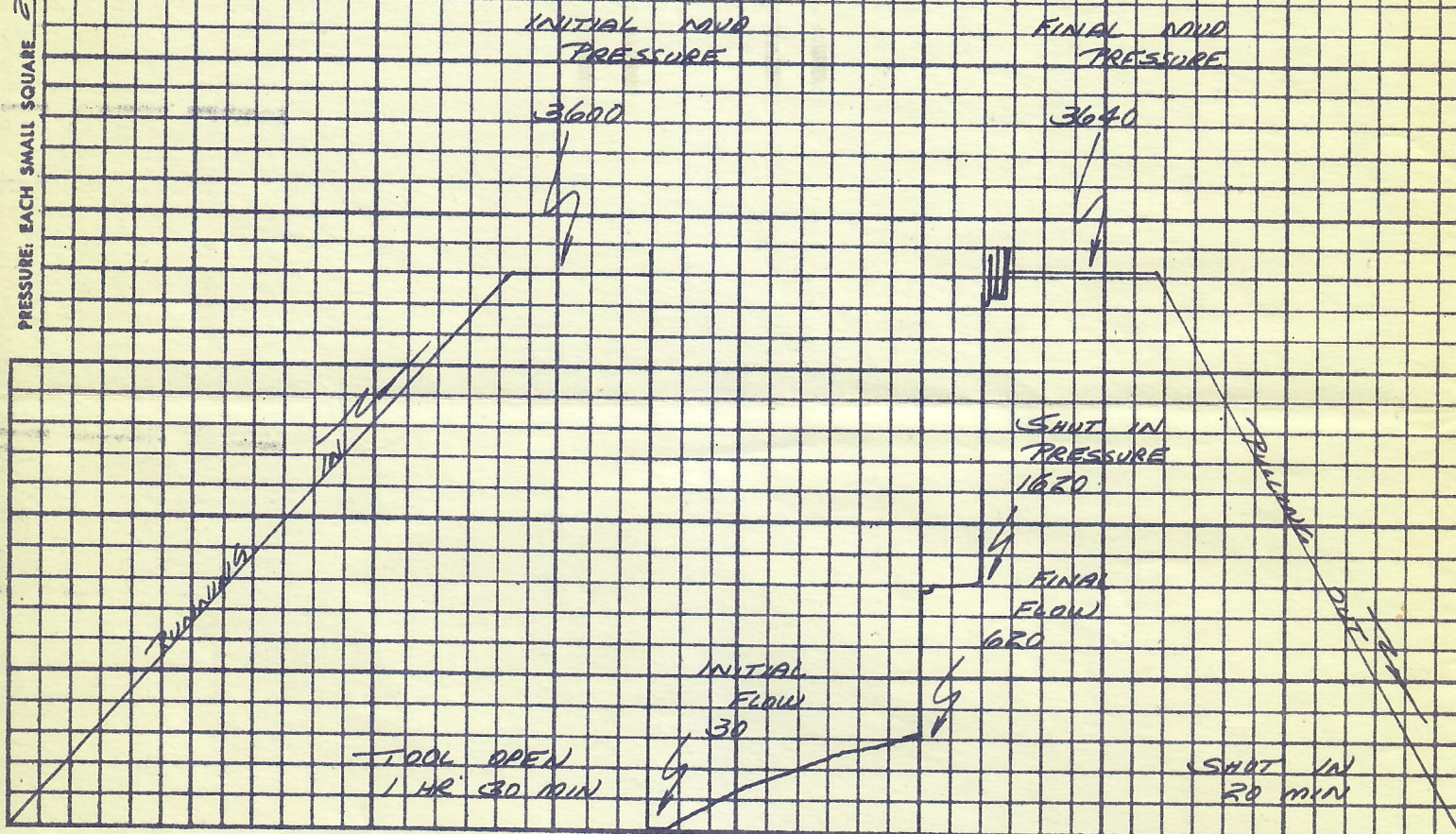
Respectfully submitted,


James B. Fuller

JBF/cm

TIME: EACH SMALL SQUARE 10 MINS.

PRESSURE: EACH SMALL SQUARE 200 PSI



CHARGES

Formation	Test at 6656	\$ 265.00
Misrun at		
Rental on Tools	—16 Hours at \$2.50	
Homco Safety Joint		7.00
Dual Wall Packers		
Testing Between Two Packers		50.00
Service Charge		
Mileage Charge	Mls. at	
Johnston Jars		100.00
Operators' Time	—16 Hours at \$2.50	
Reservoir Sampler		
One Damaged Rubber Packer 6-5/8 x 48.30		
		\$470.30*

MOJ-B-66

SUBSURFACE PRESSURE DATA

	Field Reading		Corrected Reading	
	TOP	BOTTOM	TOP	BOTTOM
Recorder No.			MOJ-B-66	
Initial BH Flow	0		30	
Final BH Flow	625		620	
Max. Recorded Shut In	1700		1620	
Initial Hydrostatic	3675		3600	
Final Hydrostatic	3675		3640	