

STIMULATION SERVICE
TREATING REPORT

HALLIBURTON DISTRICT *Halliburton*
HALL# ON DIVISION *Midland*

STAGE NO. *1st*
PAGE NO. *2*

FORM 1910

FIELD <i>Under</i>	SEC.	TWP.	RNG.	COUNTY <i>Ken</i>	STATE <i>nm</i>
MATERIALS USED		CALLED OUT 7-7-69 DATE 12:30 TIME		ON LOCATION 7-7-69 DATE 4:00 TIME	JOB STARTED 7-7-69 DATE 7:00 TIME
TYPE JOB <i>Gel Water Frac.</i>		JOB COMPLETED 7-7-69 DATE 9:00 TIME			
PERSONNEL AND EQUIPMENT					
TREAT. FLUID <i>Gel Water</i> DENSITY LB/GAL.*API					
DISP. FLUID <i>Slime</i> DENSITY LB/GAL.*API					
PROP. TYPE SIZE LB.					
PROP. TYPE <i>FINE Slime</i> SIZE <i>10-20</i> LB. <i>7000</i>					
ACID TYPE GAL. %					
ACID TYPE GAL. %					
ACID TYPE GAL. %					
SURFACTANT TYPE <i>1-1-1</i> GAL. <i>80</i> IN <i>80,000</i>					
NE AGENT TYPE GAL. IN					
FLUID LOSS ADD. TYPE GAL.-LB. IN					
GELLING AGENT TYPE <i>UG-6</i> GAL.-LB. <i>1500</i> IN					
FRIC. RED. AGENT TYPE GAL.-LB. IN					
BREAKER TYPE GAL.-LB. IN					
BLOCKING AGENT TYPE <i>TAC-W3</i> GAL.-LB. <i>4500</i>					
PERFPAC BALLS TYPE NO.					
OTHER MATERIALS <i>Pink salt</i> <i>200 sk</i>					
HYDRAULIC HORSEPOWER					
AVAILABLE USED					
AVERAGE RATES IN BPM					
TREATING DISPL. OVERALL					
PRESSURES IN PSI					
BREAKDOWN <i>2400</i> MAXIMUM <i>3500</i>					
AVERAGE DISPLACEMENT					
SHUT-IN: INSTANT <i>1900</i> 5-MIN <i>1800</i> 15-MIN <i>1800</i>					
FRACTURE GRADIENT					
VOLUMES					
LOAD & BKDN: BBL.-GAL. PAD: BBL.-GAL.					
TREATMENT: BBL.-GAL. DISPL: BBL.-GAL.					
TOTAL BBL.-GAL.					
WELL DATA					
FORMATION <i>Queens</i> DATE COMPLETED					
INIT. PROD. OIL BPD: WATER BPD: GAS MCF					
PRES PROD: OIL BPD: WATER BPD: GAS MCF					
CASING: SIZE <i>4.5</i> WEIGHT <i>11.6</i> DEPTH <i>TD</i>					
LINER: SIZE FROM TO					
OPEN HOLE: SIZE FROM TO					
PERF: <i>4526 - 4616</i>					
SHOTS/FT TOTAL NO. <i>130</i>					
CUSTOMER REPRESENTATIVE X					
HALLIBURTON OPERATOR					
COPIES REQUESTED					

CHART NO.	TIME	OPERATION AND/OR AMOUNT AND TYPE FLUID PUMPED	RATE BPM	PUMPS		PRESSURE - PSI		REMARKS
				T	C	TUBING	CASING	
<i>#1</i>		<i>Test Lines -</i>					<i>400</i>	<i>No leaks</i>
	<i>7:08</i>	<i>Exp. hole & pad</i>	<i>41</i>				<i>2400</i>	
	<i>7:09</i>	<i>Start 200 lb TAC-W3</i>	<i>32</i>				<i>2000</i>	
	<i>7:10</i>	<i>Resume 1 lb</i>	<i>41</i>				<i>2500</i>	
	<i>7:12</i>	<i>2 lb on formation</i>	<i>41</i>			<i>25-2600</i>		
	<i>7:16</i>	<i>1 lb sand on formation</i>	<i>41</i>				<i>2400</i>	
	<i>7:31</i>	<i>2 lb on temp. 25,000 gph</i>	<i>41</i>				<i>2700</i>	
	<i>7:36</i>	<i>2500 lb TAC-W3 on formation</i>	<i>41</i>			<i>26-</i>	<i>3100</i>	
	<i>7:39</i>	<i>1 lb sand on formation</i>	<i>41</i>				<i>2800</i>	
	<i>7:55</i>	<i>Start 2 lb sand & gels</i>	<i>40</i>				<i>3300</i>	
	<i>7:58</i>	<i>Start flush</i>	<i>40</i>				<i>3400</i>	
	<i>7:59</i>	<i>5 1/2 Bbl. flush pumped</i>						
	<i>8:00</i>	<i>Success cut</i>				<i>35-</i>	<i>4100</i>	
		<i>Instant from 4000</i>						
		<i>1900</i>						
		<i>5" min 1800</i>						

CUSTOMER *W. A. Springhead* LEASE *Schreiber* WELL NO. *#2* DATE

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JUN 15 1970

**OIL CONSERVATION COMM.
HOBBS, N. M.**



LTR



Job separation sheet

SERVICE REPORT

Casing, Tubing & Packer Data				Completion Data			
Casing O.D. <u>4 1/2"</u> WT. <u>11.6</u> DPT. <u>4730'</u> CEMENT <u>yes</u>				Date Drilled _____ Formation <u>Queens</u>			
Liner O.D. _____ WT. _____ FR. _____ TO _____				Pay Section From <u>4525'</u> TO <u>4625'</u>			
Tubing Size _____ Perf's or Open End _____				Present Total Depth <u>4730'</u> P.B. From _____			
Tubing Size _____ Perf's or Open End _____				Initial Prod: Oil _____ Gas _____ Water _____			
Hvd. Hold Down Anchor: Kind _____ Depth _____				Present Prod: Oil _____ Gas _____ Water _____			
Upper Packer Type: _____ Depth _____				Acid and/or Frac _____ Date _____			
Lower Packer Type: _____ Depth _____				Acid and/or Frac _____ Date _____			
Casing Perforated w/ _____ Shots/Ft. From <u>4525'</u> To <u>4625'</u>				Acid and/or Frac _____ Date _____			
_____ Shts./Ft. FR. _____ TO _____ FR. _____ TO _____				Total Acid and/or Frac in Well _____			
_____ Shts./Ft. FR. _____ TO _____ FR. _____ TO _____				Type Fluid in TBG. _____ In CSG. <u>water</u>			
Open Hole Size: _____ From _____ To _____							

WELL DATA

CASING, TUBING & PACKER DATA

CASING O.D. 4 1/2" WT. 11.6 DPT. 4730' CEMENT yes

LINER O.D. _____ WT. _____ FR. _____ TO _____

TUBING SIZE _____ PERF'S OR OPEN END _____

TUBING SIZE _____ PERF'S OR OPEN END _____

HYD. HOLD DOWN ANCHOR: KIND _____ DEPTH _____

UPPER PACKER TYPE: _____ DEPTH _____

LOWER PACKER TYPE: _____ DEPTH _____

CASING PERFORATED W/ _____ SHOTS/FT. FROM 4525' TO 4625'

_____ SHTS./FT. FR. _____ TO _____ FR. _____ TO _____

_____ SHTS./FT. FR. _____ TO _____ FR. _____ TO _____

OPEN HOLE SIZE: _____ FROM _____ TO _____

COMPLETION DATA

DATE DRILLED	FORMATION	Queens
PAY SECTION FROM	4525'	TO 4625'
PRESSENT TOTAL DEPTH	4730'	P.B. FROM
INITIAL PROD: OIL	GAS	WATER
PRESSENT PROD: OIL	GAS	WATER
ACID AND/OR FRAC		DATE
ACID AND/OR FRAC		DATE
ACID AND/OR FRAC		DATE
ACID AND/OR FRAC		DATE
TOTAL ACID AND/OR FRAC IN WELL		
TYPE FLUID IN TBG	IN CSG	water

VOLUMES

T.G. 71.68 BBLS. CSG. _____ BBLS. OPEN HOLE _____ BBLS
ANNULAR VOL. OF PAY ZONE: CSG. _____ OPEN HOLE _____
TOTAL TO FILL _____ BBLS. TOTAL TO SPOT 72 _____ BBLS
VOL. USED TO FLUSH 72 BBLS. TO OVERFLUSH 8 _____ BBLS
OTHER INFORMATION: _____

OIL TANK GAUGES: START _____ FINISH _____

SERVICES USED

13	GALS. BGA-1	TYPE
500	lbs. FLOW-2	TYPE
400	lbs. QF-3	TYPE
700	LBS. Rock salt	MATERIAL
	LBS.	MATERIAL
PUMPS USED ON TBG. 1 VT-1 Packard		
PUMPS USED ON CSG.		

[illegible]

TIME	PRESSURES	
a.m. or p.m.	Casing	Tubing
10:00	100	100
10:15	100	100
10:30	100	100
10:45	100	100
11:00	100	100
11:15	100	100
11:30	100	100
11:45	100	100
12:00	100	100
12:15	100	100
12:30	100	100
12:45	100	100
1:00	100	100
1:15	100	100
1:30	100	100
1:45	100	100
2:00	100	100
2:15	100	100
2:30	100	100
2:45	100	100
3:00	100	100
3:15	100	100
3:30	100	100
3:45	100	100
4:00	100	100
4:15	100	100
4:30	100	100
4:45	100	100
5:00	100	100
5:15	100	100
5:30	100	100
5:45	100	100
6:00	100	100
6:15	100	100
6:30	100	100
6:45	100	100
7:00	100	100
7:15	100	100
7:30	100	100
7:45	100	100
8:00	100	100
8:15	100	100
8:30	100	100
8:45	100	100
9:00	100	100
9:15	100	100
9:30	100	100
9:45	100	100
10:00	100	100
10:15	100	100
10:30	100	100
10:45	100	100
11:00	100	100
11:15	100	100
11:30	100	100
11:45	100	100
12:00	100	100
12:15	100	100
12:30	100	100
12:45	100	100
1:00	100	100
1:15	100	100
1:30	100	100
1:45	100	100
2:00	100	100
2:15	100	100
2:30	100	100
2:45	100	100
3:00	100	100
3:15	100	100
3:30	100	100
3:45	100	100
4:00	100	100
4:15	100	100
4:30	100	100
4:45	100	100
5:00	100	100
5:15	100	100
5:30	100	100
5:45	100	100
6:00	100	100
6:15	100	100
6:30	100	100
6:45	100	100
7:00	100	100
7:15	100	100
7:30	100	100
7:45	100	100
8:00	100	100
8:15	100	100
8:30	100	100
8:45	100	100
9:00	100	100
9:15	100	100
9:30	100	100
9:45	100	100
10:00	100	100
10:15	100	100
10:30	100	100
10:45	100	100
11:00	100	100
11:15	100	100
11:30	100	100
11:45	100	100
12:00	100	100
12:15	100	100
12:30	100	100
12:45	100	100
1:00	100	100
1:15	100	100
1:30	100	100
1:45	100	100
2:00	100	100
2:15	100	100

CARDINAL CONNECTIONS TESTED TO:
TBG. PSI. CSG. PSI.

ARRIVED ON LOCATION. Rig Cardinal equipment to well.

[illegible]

LAST TRUCK DEPARTED. LOCATION WAS LEFT CLEAN ~~XXXX~~ Thank you.

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JUN 15 1970

**OIL CONSERVATION COMM.
HOBBS, N. M.**