

Company Gunner Oil Company Lease & Well No. Kumgerg #1

Elevation --- Formation Indian Cave Effective Pay --- Ft. Ticket No. 4358

Date 11/20/79 Sec. 31 Twp 29S Range 11W County Pratt State Kansas

Test Approved by Doug McGuinness Western Representative Mike Tritt

Formation Test No. 1 Interval Tested from 2742 ft. to 2780 ft. Total Depth 2780 ft.

Packer Depth 2737 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2742 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2744 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 2747 ft. Recorder Number 2605 Cap. 4150

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

Drilling Contractor H-30, Inc. Rig # 7 Drill Collar Length 120 I. D. 2 1/4 in.

Mud Type premix-starch Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 13.8 cc. Drill Pipe Length 2692 I. D. 3.8 in.

Chlorides 30,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make -- Serial Number --- Anchor Length 38 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 XH in.

Blow: Strong blow throughout test. Gas to surface two minutes. See attached sheet for gas measurements.

Recovered 10 ft. of drilling mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 4:35 A.M. P.M. Time Started Off Bottom 6:40 A.M. P.M. Maximum Temperature 98⁰

Initial Hydrostatic Pressure 1395 (A) 1395 P.S.I.

Initial Flow Period 30 Minutes (B) 213 P.S.I. to (C) 584 P.S.I.

Initial Closed In Period 30 Minutes (D) 1004 P.S.I.

Final Flow Period 30 Minutes (E) 595 P.S.I. to (F) 641 P.S.I.

Final Closed In Period 30 Minutes (G) 1000 P.S.I.

Final Hydrostatic Pressure 1338 (H) 1338 P.S.I.

GAS FLOW REPORT

Date 11/20/79 Ticket 4358 Company Gunner Oil Company
 Well Name and No. Kumberg #1 Dst No. 1 Interval Tested 2742'-2780'
 County Pratt State Kansas Sec. 31 Twp. 29S Rg. 11W

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
4:35	Open tool	PRE FLOW				
4:37		1¼" orifice				Gas to surface
4:45		1½" orifice 30 lbs.				2,558,000 CFPD
4:55		1¼" orifice 70 lbs.				3,063,000 CFPD
5:05		1¼" orifice 70 lbs.				3,063,000 CFPD
5:35	Open tool	SECOND FLOW				
5:45		1¼" orifice 80 lbs.				3,424,000 CFPD
5:55		1¼" orifice 85 lbs.				3,605,000 CFPD
6:05		1¼" orifice 90 lbs.				3,786,000 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled --- Date to be Invoiced 11/20/79

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 Gunner Oil Company
 Authorized by Doug McGuinness

WESTERN TESTING CO., INC.

Pressure Data

Date 11/20/79 Recorder No. 3354 Capacity 4200 Test Ticket No. 4358
 Location 2744 Ft.
 Clock No. --- Elevation --- Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1395	P.S.I.	4:35	M
B First Initial Flow Pressure	213	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	584	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	1004	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	595	P.S.I.	30	Mins. 30 Mins.
F Second Final Flow Pressure	641	P.S.I.	30	Mins. 30 Mins.
G Final Closed-in Pressure	1000	P.S.I.		
H Final Hydrostatic Mud	1338	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>213</u>	<u>0</u>	<u>584</u>	<u>0</u>	<u>595</u>	<u>0</u>	<u>641</u>
P 2 <u>5</u>	<u>409</u>	<u>3</u>	<u>977</u>	<u>5</u>	<u>635</u>	<u>3</u>	<u>968</u>
P 3 <u>10</u>	<u>492</u>	<u>6</u>	<u>986</u>	<u>10</u>	<u>641</u>	<u>6</u>	<u>983</u>
P 4 <u>15</u>	<u>527</u>	<u>9</u>	<u>992</u>	<u>15</u>	<u>641</u>	<u>9</u>	<u>987</u>
P 5 <u>20</u>	<u>553</u>	<u>12</u>	<u>996</u>	<u>20</u>	<u>641</u>	<u>12</u>	<u>992</u>
P 6 <u>25</u>	<u>570</u>	<u>15</u>	<u>998</u>	<u>25</u>	<u>641</u>	<u>15</u>	<u>994</u>
P 7 <u>30</u>	<u>584</u>	<u>18</u>	<u>1000</u>	<u>30</u>	<u>641</u>	<u>18</u>	<u>996</u>
P 8		<u>21</u>	<u>1001</u>			<u>21</u>	<u>997</u>
P 9		<u>24</u>	<u>1002</u>			<u>24</u>	<u>998</u>
P10		<u>27</u>	<u>1003</u>			<u>27</u>	<u>999</u>
P11		<u>30</u>	<u>1004</u>			<u>30</u>	<u>1000</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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