

Company Gemini Oil Company Lease & Well No. #2 McKenna
Elevation -- Formation Indian Cave Effective Pay -- Ft. Ticket No. 13988
Date 7/24/82 Sec. 29 Twp. 28S Range 9W County Kingman State Kansas
Test Approved by A. G. Siemens Western Representative Jeff Piotrowski
Formation Test No. 1 Interval Tested from 2406 ft. to 2435 ft. Total Depth 2435 ft.
Packer Depth 2406 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2425 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 2428 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Mustang Drlg. Rig #2 Drill Collar Length 120 I. D. 2.2 in.
Mud Type -- Viscosity 32 Weight Pipe Length - I. D. - in.
Weight 10.3 Water Loss 20.0 cc. Drill Pipe Length 2271 I. D. 3.8 in.
Chlorides 115,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 29 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: MISRUN

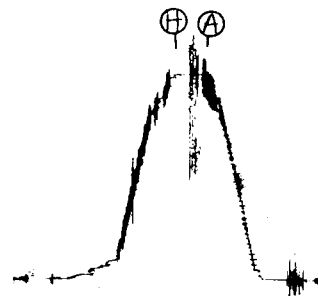
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of
Recovered - ft. of

Remarks: PACKER SEAT FAILURE MISRUN

Time Set Packer(s) ----- A.M. Time Started Off Bottom ---- A.M. Maximum Temperature -----
P.M. P.M.
Initial Hydrostatic Pressure 1307 (A) - P.S.I.
Initial Flow Period - Minutes (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period - Minutes (D) - P.S.I.
Final Flow Period - Minutes (E) - P.S.I. to (F) - P.S.I.
Final Closed In Period - Minutes (G) - P.S.I.
Final Hydrostatic Pressure 1285 (H) - P.S.I.

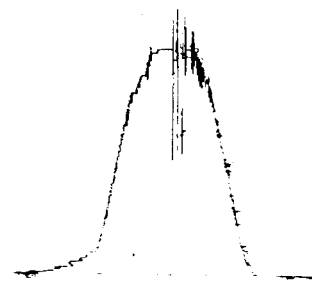
TKT # 13988

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TKT # 13988

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 13988

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

Elevation _____ Formation Indian Cave Eff. Pay _____ Ft.

District Pratt Date 7-24-82 Customer Order No. _____

COMPANY NAME Gemini Oil Company

ADDRESS 1408 Philtower Bldg. Tulsa OK 74103

LEASE AND WELL NO McKenna #2 COUNTY Kingman STATE KS Sec 29 Twp 28s Rge 9w

Mail Invoice To Same #2 McKENNA No. Copies Requested Reg

Co. Name _____ Address _____

Mail Charts To Same No. Copies Requested Reg

Address _____

Formation Test No 1 Interval Tested from 2406 ft. to 2435 ft. Total Depth 2435 ft.

Packer Depth 2406 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2425 ft. Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 2428 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Mustang #2 Drill Collar Length 120 I. D. 2.2 in.

Mud Type _____ Viscosity 32 Weight Pipe Length _____ I. D. _____ in.

Weight 10.3 Water Loss 20.0 cc. Drill Pipe Length 2271 I. D. 3.8 in.

Chlorides 115,000 P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 OD in.

Jars: Make _____ Serial Number _____ Anchor Length 29 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 KH in.

Blow: _____

Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Recovered _____ ft. of

Remarks: Packer Set Failure.

Time On Location 1:00 A.M. Time Pick Up Tool 3:00 A.M. Time Off Location _____ A.M.

Time Set Packer(s) _____ P.M. Time Started Off Bottom _____ P.M. Maximum Temperature _____

Initial Hydrostatic Pressure _____ (A) X 1307 P.S.I.

Initial Flow Period _____ Minutes (B) _____ P.S.I. to (C) _____ P.S.I.

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

Final Flow Period _____ Minutes (E) _____ P.S.I. to (F) _____ P.S.I.

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

Final Hydrostatic Pressure _____ (H) X 1285 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 A. G. Siemens

Signature of Customer or his authorized representative

Western Representative Jeff Portman

Thank you

FIELD INVOICE

Open Hole Test \$ _____
Misrun \$ 400.00
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
TOTAL \$ 400.00

Company Gemini Oil Company Lease & Well No. #2 McKenna
Elevation -- Formation Indian Cave Effective Pay -- Ft. Ticket No. 13989
Date 7/24/82 Sec. 29 Twp. 28S Range 9W County Kingman State Kansas
Test Approved by A. G. Siemens Western Representative Jeff Piotrowski
Formation Test No. 2 Interval Tested from 2378 ft. to 2435 ft. Total Depth 2435 ft.
Packer Depth 2373 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 2378 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 2425 ft. Recorder Number 1565 Cap. 4900
Bottom Recorder Depth (Outside) 2428 ft. Recorder Number 1560 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Mustang Drlg. Rig #2 Drill Collar Length 150 I. D. 2.2 in.
Mud Type starch Viscosity 32 Weight Pipe Length - I. D. - in.
Weight 10.3 Water Loss 20.0 cc. Drill Pipe Length 2208 I. D. 3.8 in.
Chlorides 115,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
Jars: Make - Serial Number - Anchor Length 57 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. Gas to surface in one minute. See attached sheet for gas measurements.

Recovered 240 ft. of water Chlorides 113,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:30 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 10:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 104°
Initial Hydrostatic Pressure (A) 1300 P.S.I.
Initial Flow Period Minutes 30 (B) 425 P.S.I. to (C) 464 * P.S.I.
Initial Closed In Period Minutes 42 (D) 900 P.S.I.
Final Flow Period Minutes 45 (E) 343 * P.S.I. to (F) 519 P.S.I.
Final Closed In Period Minutes 60 (G) 893 P.S.I.
Final Hydrostatic Pressure (H) 1278 P.S.I.

GAS FLOW REPORT

Date	7/24/82	Ticket	13989	Company	Gemini Oil Company		
Well Name and No.	McKenna #2			Dst No.	2	Interval Tested	2378'-2435'
County	Kingman	State	Kansas	Sec.	29	Twp.	28S 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.	16 PSIG	1½" orifice			1,694,000 CFPD Started blowing
10 min.	25 PSIG	1½" orifice			2,258,000 CFPD water nine minutes into initial flow.
15 min.	27 PSIG	1½" orifice			2,380,000 CFPD
20 min.	27 PSIG	1½" orifice			2,380,000 CFPD
25 min.	27 PSIG	1½" orifice			2,380,000 CFPD
30 min.	27 PSIG	1½" orifice			2,380,000 CFPD

SECOND FLOW

[illegible]

GAS BOTTLE

Serial No. ---- Date Bottle Filled --- Date to be Invoiced 7/24/82

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 Gemini Oil Company

Authorized by A. G. Siemens

WESTERN TESTING CO., INC.

Pressure Data

Date 7/24/82 Test Ticket No. 13989
 Recorder No. 1565 Capacity 4900 Location 2425 Ft.
 Clock No. -- Elevation --- Well Temperature 104 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1300 P.S.I. Open Tool 7:30A M
 B First Initial Flow Pressure 425 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 464 * P.S.I. Initial Closed-in Pressure 45 Mins. 42 Mins.
 D Initial Closed-in Pressure 900 P.S.I. Second Flow Pressure 45 Mins. 45 Mins.
 E Second Initial Flow Pressure 343 * P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 519 P.S.I.
 G Final Closed-in Pressure 893 P.S.I.
 H Final Hydrostatic Mud 1278 P.S.I.

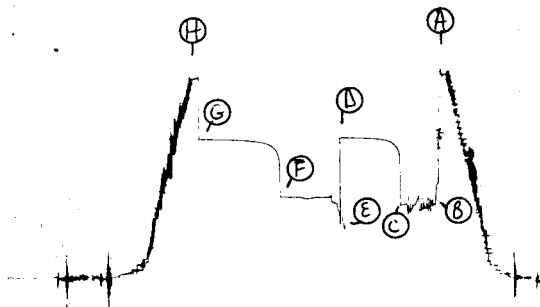
* PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>14</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a 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>425 *</u>	<u>0</u>	<u>464 *</u>	<u>0</u>	<u>343 *</u>	<u>0</u>	<u>519</u>
P 2 <u>5</u>	<u>425 *</u>	<u>3</u>	<u>863</u>	<u>5</u>	<u>483 *</u>	<u>3</u>	<u>832</u>
P 3 <u>10</u>	<u>425 *</u>	<u>6</u>	<u>876</u>	<u>10</u>	<u>515 *</u>	<u>6</u>	<u>853</u>
P 4 <u>15</u>	<u>425 *</u>	<u>9</u>	<u>885</u>	<u>15</u>	<u>515 *</u>	<u>9</u>	<u>863</u>
P 5 <u>20</u>	<u>431 *</u>	<u>12</u>	<u>889</u>	<u>20</u>	<u>512 *</u>	<u>12</u>	<u>869</u>
P 6 <u>25</u>	<u>464 *</u>	<u>15</u>	<u>891</u>	<u>25</u>	<u>507 *</u>	<u>15</u>	<u>874</u>
P 7 <u>30</u>	<u>464 *</u>	<u>18</u>	<u>893</u>	<u>30</u>	<u>516</u>	<u>18</u>	<u>878</u>
P 8		<u>21</u>	<u>895</u>	<u>35</u>	<u>517</u>	<u>21</u>	<u>880</u>
P 9		<u>24</u>	<u>897</u>	<u>40</u>	<u>518</u>	<u>24</u>	<u>882</u>
P10		<u>27</u>	<u>899</u>	<u>45</u>	<u>519</u>	<u>27</u>	<u>884</u>
P11		<u>30</u>	<u>899</u>			<u>30</u>	<u>886</u>
P12		<u>33</u>	<u>900</u>			<u>33</u>	<u>887</u>
P13		<u>36</u>	<u>900</u>			<u>36</u>	<u>888</u>
P14		<u>39</u>	<u>900</u>			<u>39</u>	<u>889</u>
P15		<u>42</u>	<u>900</u>			<u>42</u>	<u>890</u>
P16						<u>45</u>	<u>890</u>
P17						<u>48</u>	<u>891</u>
P18						<u>51</u>	<u>891</u>
P19						<u>54</u>	<u>892</u>
P20						<u>57</u>	<u>892</u>
						<u>60</u>	<u>893</u>

1565
DSTAD

TKT # 13989
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 13989

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

Elevation _____ Formation Indian Cave Eff. Pay _____ Ft.

District Pratt Date 7-24-82 Customer Order No. _____

COMPANY NAME Gemini Oil Co.

ADDRESS 1408 Philtower Bld. Tulsa Okla.

LEASE AND WELL NO McKenna #2 COUNTY Kingman STATE KS Sec. 29 Twp 28 Rge 9w

Mail Invoice To Same #2 McKenna No. Copies Requested Reg

Co. Name Same Address _____ No. Copies Requested Reg

Mail Charts To _____ Address _____ No. Copies Requested _____

Formation Test No. 2 Interval Tested from 2378 ft. to 2435 ft. Total Depth 2435 ft.

Packer Depth 2373 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2378 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2425 ft. Recorder Number 1565 Cap. 4900

Bottom Recorder Depth (Outside) 2428 ft. Recorder Number 1560 Cap. 4500

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

Drilling Contractor Mustang #2 Drill Collar Length 150 I. D. 2.2 in.

Mud Type Starch Viscosity 32 Weight Pipe Length _____ I. D. _____ in.

Weight 10.3 Water Loss 20.0 cc. Drill Pipe Length 2208 I. D. 3.8 in.

Chlorides 115,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make _____ Serial Number _____ Anchor Length 57 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 x 4 in.

Blow: Strong - GTS 1 min - See Gas Flow Report Attached Sheet for gas measurements

Recovered 240 ft. of Water Chlorides 113,000 ppm

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time On Location _____ A.M. P.M. Time Pick Up Tool _____ A.M. P.M.

Time Set Packer(s) 7:30 A.M. P.M. Time Started Off Bottom 10:30 A.M. P.M.

Initial Hydrostatic Pressure _____ (A) 1298 P.S.I. Maximum Temperature 104°

Initial Flow Period _____ Minutes 30 (B) 445 P.S.I. to (C) 457 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 891 P.S.I.

Final Flow Period _____ Minutes 45 (E) 339 P.S.I. to (F) 510 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 891 P.S.I.

Final Hydrostatic Pressure _____ (H) 1273 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 A. H. Siemens
Signature of Customer or his authorized representative

Western Representative Jeff Peterson

FIELD INVOICE

Open Hole Test \$ 100.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
TOTAL \$ 600.00

WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 7-24-82 Ticket 13989 Company Gemini Oil Co
Well Name and No. M^cKenna #2 Dst No. 2 Interval Tested 2378-2435
County Kingman State KS Sec. 29 Twp. 28S Rg. 9W

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

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.

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date: 7-24-82 Recorder No. 1565 Capacity 4900 Test Ticket No. 13989
 Clock No. --- Elevation --- Location 2425 Ft. 104 Well Temperature --- °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1300</u> P.S.I.	<u>7:30 A</u> M	
B First Initial Flow Pressure	<u>425</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>464</u> P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>900</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>343</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>519</u> P.S.I.		
G Final Closed-in Pressure	<u>893</u> P.S.I.		
H Final Hydrostatic Mud	<u>1278</u> P.S.I.		

** Pressures questionable due to plugging action*

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
of	mins. and a	of	mins. and a	of	mins. and a	of	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 0	<u>425</u> *	0	<u>464</u> *	0	<u>343</u> *	0	<u>519</u>
P 2 5	<u>425</u> *	3	<u>863</u>	5	<u>483</u> *	3	<u>832</u>
P 3 10	<u>425</u> *	6	<u>826</u>	10	<u>515</u> *	6	<u>853</u>
P 4 15	<u>425</u> *	9	<u>885</u>	15	<u>515</u> *	9	<u>863</u>
P 5 20	<u>431</u> *	12	<u>889</u>	20	<u>512</u> *	12	<u>869</u>
P 6 25	<u>464</u> *	15	<u>891</u>	25	<u>507</u> *	15	<u>874</u>
P 7 30	<u>464</u> *	18	<u>893</u>	30	<u>516</u>	18	<u>878</u>
P 8 35		21	<u>895</u>	35	<u>517</u>	21	<u>880</u>
P 9 40		24	<u>897</u>	40	<u>518</u>	24	<u>882</u>
P10 45		27	<u>899</u>	45	<u>519</u>	27	<u>884</u>
P11 50		30	<u>899</u>	50		30	<u>886</u>
P12 55		33	<u>900</u>	55		33	<u>887</u>
P13 60		36		60		36	<u>888</u>
P14		39		65		39	<u>889</u>
P15		42	<u>900</u>	70		42	<u>890</u>
P16		45		75		45	<u>890</u>
P17		48		80		48	<u>891</u>
P18		51		85		51	<u>891</u>
P19		54		90		54	<u>892</u>
P20		57				57	<u>892</u>
		60				60	<u>893</u>