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SAKS8:  
ABKIV:

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CABLE: 'BACASO'  
TELEPHONES: 3901 & 55332

7205-

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WELL PRODUCTION TEST

DATA

Company: Phillips Petroleum Company Norway  
 Well Number: 7/11-3X Field: Wildcat Country: Norway  
 Type of Test: Drillstem - Test 1  
 Date of Test, from: 7th December, 1968 to: 8th December, 1968  
 Rig or Platform: Ocean Traveler  
 Drilling Contractor: Odessa Norway  
 Formation Tested: No Information Interval: 10629 ft to: 10651 ft  
 Hole Size. Casing: 7" O.D.", 29 lbs/ft to: 10960 ft  
 Liner:            O.D.",            lbs/ft to:            ft  
 Open Hole: None I.D.", from: - ft to: - ft  
           I.D.", from:            ft to:            ft  
 Driller's Mud Weight: 13.8 lbs/gal, or 103.0 cu.ft/lbs or 1.65 p.g

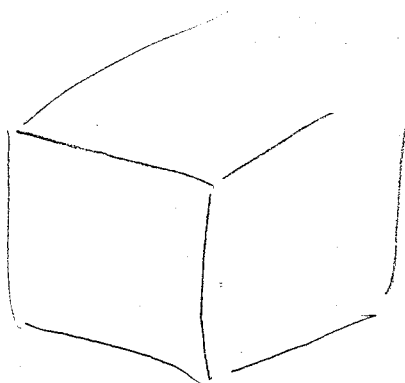
<u>TEST STRING</u> (Bottom to top)	<u>Min.I.D"</u>	<u>Length: ft</u>
a <u>1 joint 3 1/2" tubing with bomb stop</u>	<u>2.992</u>	<u>31.95</u>
b <u>Baker Model 'R' Seating Nipple</u>	<u>2.750</u>	<u>0.86</u>
c <u>1 joint 3 1/2" tubing</u>	<u>2.992</u>	<u>31.26</u>
d <u>Baker Model 'P' Seating Nipple</u>	<u>2.750</u>	<u>0.92</u>
e <u>1 joint perforated 3 1/2" tubing</u>	<u>2.992</u>	<u>31.36</u>
f <u>Crossovers</u>	<u>3.690</u>	<u>1.58</u>
g <u>7" BJ Type FFC packer</u>	<u>2.500</u>	<u>6.38</u>
h <u>Crossover</u>	<u>2.440</u>	<u>2.01</u>
i <u>Tubing string</u>		
j		
k		
l		
m		

<u>DEPTH</u>	<u>Measured depth - Vertical depth</u>	<u>Measured Depth ft.</u>	<u>Vertical Depth ft.</u>
Water Cushion: Weight	<u>          </u> PSI/FT, top at		
Test Tool			<u>10565</u> ^
Centre of Packer & Packing Element			<u>10568</u>
Centre of Perforated Pipe			<u>10588</u>
Pressure Recorders: <u>Am. 21642N, 15000 psi 72 Hrs.</u>			<u>10609</u>
No. 1. Serial No. <u>14787</u> Range <u>250<sup>0</sup> PSI</u> , Clock <u>72</u> Hr			<u>10615</u>
No.    Serial No. <u>566</u> Range <u>7100</u> PSI, Clock <u>90</u> Hr			<u>10647</u>
No. 3. Serial No. <u>560</u> Range <u>7100</u> PSI, Clock <u>180</u> Hr			<u>10658</u>
Bottom of Tail Pipe			<u>10669</u>

\* Depth of Pressure Recorder is depth of pressure sensing device.

TEST PROCEDURE

- 0230 Opened well for clean up
- 0300 Shut well in for initial build up
- 0805 Opened well for flow
- 1210 Shut well in for final build up
- 1550 Released packer



TEST RESULTS SUMMARY (Pressures from Pressure Recorder No. 566)

- a. Initial mud Hydrostatic pressure 7798.25 PSIG @ 10657 ft. vert. depth.  
corresponding to 15.0 lbs/gal, 112.0 lbs/cu.ft. 1.80 sp.g.
- b. Well clean up: 30 minutes; minimum BHP: 3869.95 PSIG
- c. Initial build up: 305 minutes; max. pressure: 5253.26 PSIG
- d. Total flowing period: 4 Hrs. 05 minutes.
- e. Minimum bottom hole flowing pressure: 3891.98 PSIG
- f. Total production: gas - MCF., oil - bbl, water - bbl.
- g. Average daily production: gas - MCF/D, oil - bbl/D, water - bbl/D.
- h. Final build up: 3 Hrs. 40 minutes; Max. pressure 5022.77 PSIG.

TEMPERATURE - °F from max. reading thermometer @ - ft. vert. depth.

ATTACHMENTS

- a. Well head measurements, rig activities and bottom hole flowing pressure.
- b. Final build up pressure: pressure readings only  computerised
- c. Separator readings and gas flow rate calculations.
- d. Liquid flow rates.

COMPANY: Phillips Petroleum WELL NO: 7/11-3X COUNTRY: Norway TEST NO: DST No. 1  
 DATE OF TEST: 8th December, 1968 : FORMATION: N/A INTERVAL TESTED 10629 ft. to 10651 ft.

**SURFACE AND BOTTOM HOLE READINGS**

DATE	TIME	WELL HEAD					BOTTOM HOLE READINGS	
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		PRESSURES PSIG	
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG	TEMP. °F	RIG OBSERVATIONS	Recorder No. 1 at 10647 V.D.
WELL HEAD PRESSURE TAKEN WITH DEAD WEIGHT TESTER <input type="checkbox"/> NONE PRESSURE GAUGE <input type="checkbox"/> NONE						No. 566	No. 560	
8 Dec. 1968	0230					Opened well	7853.39	7848.58
	0231						3871.97	3903.64
	0245						3869.95	
	0300					Shut well in	3874.40	3889.03
	0315						3970.55	
	0330						4117.60	
	0345						4236.69	
	0400						4349.90	
	0415						4443.63	
	0430						4535.34	
	0445						4617.56	
	0500						4691.49	
	0515						4757.75	
	0530						4819.96	
	0545						4875.72	
	0600						4922.58	
	0615						4964.19	
	0630						5007.82	

## SURFACE AND BOTTOM HOLE READINGS

DATE	TIME	WELL HEAD					BOTTOM HOLE READINGS				
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		RIG OBSERVATIONS	PRESSURES PSIG			
			PRESSURE PSIG	TEMP. ° F	PRESSURE PSIG	TEMP. ° F		Recorder No. 1 at V.D.	Recorder No. 2 at V.D.	Recorder No. 1 at V.D.	Recorder No. 2 at V.D.
	0645							5043.58			
	0700							5080.54			
	0715							5116.90			
	0730							5154.07			
	0745							5192.86			
	0800							5229.22			
	0805					Opened well		5233.26		5193.18	
	0806							3896.42		3918.66	
	0815							3894.00			
	0830							3891.98			
	0845							3893.19			
	0900							3895.21			
	0915							3897.23			
	0930							3899.25			
	0945							3902.48			
	1000							3903.69			
	1015							3906.12			
	1030							3908.54			
	1045							3910.56			
	1100							3913.39			
	1115							3916.22			
	1130							3918.64			
	1145							3920.66			



WELL PRODUCTION TEST

DATA

Company: Phillips Petroleum Company Norway  
 Well Number: 7/11-3X Field: Wildcat Country: Norway  
 Type of Test: Drillstem - Test 2  
 Date of Test, from: 9th December, 1968 to: 10th December, 1968  
 Rig or Platform: Ocean Traveler  
 Drilling Contractor: Odeco Norway  
 Formation Tested: No Information Interval: 10532 ft to: 10603 ft  
 Hole Size. Casing: 7" O.D.", 29 lbs/ft to: 10960 ft  
 Liner: \_\_\_\_\_ O.D.", \_\_\_\_\_ lbs/ft to: \_\_\_\_\_ ft  
 Open Hole: None I.D.", from: - ft to: - ft  
 \_\_\_\_\_ I.D.", from: \_\_\_\_\_ ft to: \_\_\_\_\_ ft  
 Driller's Mud Weight: 13.8 lbs/gal, or 103.0 cu.ft/lbs or 1.65 sp.g

TEST STRING (Bottom to top)	Min.I.D".	Length: ft
a 1 joint 3 1/2" tubing with bomb stop	2.992	31.95
b Baker Model 'R' Seating Nipple	2.750	0.86
c 1 joint 3 1/2" tubing	2.992	31.26
d Baker Model 'F' Seating Nipple	2.750	0.92
e 1 joint 3 1/2" tubing	2.992	31.36
f Crossover	3.690	1.58
g 7" BJ type PFC packer	2.500	6.38
h Crossover	2.440	2.01
i Tubing string		

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DEPTH	Measured depth - vertical depth	Measured Depth ft.	Vertical Depth ft.
	Water Cushion: Weight _____ PSI/FT, top at . . . . .		
	Test Tool. . . . .		10478
	Centre of Packer & Packing Element . . . . .		10481
	Centre of Perforated Pipe. . . . .		10501
	Pressure Recorders: Am. 21642N, 15000 psi, 72 Hrs.		10519
No. 1.	Serial No. 14787 Range 250 PSI, Clock 72 Hr		10525 *
No. 2.	Serial No. 566 Range 7100 PSI, Clock 90 Hr		10557 *
No. 3.	Serial No. 560 Range 7100 PSI, Clock 180 Hr		10568 *
	Bottom of Tail Pipe. . . . .		10582

\* Depth of Pressure Recorder is depth of pressure sensing device.

TEST PROCEDURE

9th December	16.45	Opened well for clean up
	17.00	Shut well in for initial build up
	20.00	Opened well for final flow
10th December	08.30	Shut well in for final build up
	13.00	Released packer

TEST RESULTS SUMMARY (Pressures from Pressure Recorder No. 566)

- a. Initial mud Hydrostatic pressure 7798.25 PSIG @ 10557 ft. vert. depth. corresponding to 15.0 lbs/gal, 112.0 lbs/cu.ft. 1.80 sp.g.
- b. Well clean up: 15 minutes; minimum BHP: 3879.86 PSIG
- c. Initial build up: 180 minutes; max. pressure: 5569.38 PSIG
- d. Total flowing period: 12 Hrs. 30 minutes.
- e. Minimum bottom hole flowing pressure: 3903.29 PSIG
- f. Total production: gas - MCF., oil - bbl, water - bbl.
- g. Average daily production: gas - MCF/D, oil - bbl/D, water - bbl/D.
- h. Final build up: 4 Hrs. 30 minutes; Max. pressure 5407.78 PSIG.

TEMPERATURE - °F from max. reading thermometer @ - ft. vert. depth.

ATTACHMENTS

- a. Well head measurements, rig activities and bottom hole flowing pressure.
- b. Final build up pressure: pressure readings only  computerised
- c. Separator readings and gas flow rate calculations.
- d. Liquid flow rates.



COMPANY: Phillips Petroleum WELL NO: 7/11-3X COUNTRY: Norway TEST NO: DSI No. 2  
 DATE OF TEST: 9th December, 1968 to 10th December, 1968 FORMATION: N/A INTERVAL TESTED 10552 ft. to 10603 ft.

**SURFACE AND BOTTOM HOLE READINGS**

DATE	TIME	WELL HEAD					BOTTOM HOLE READINGS	
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		PRESSURES PSIG	
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG	TEMP. °F	Recorder No. 1 at 10557 V.D.	Recorder No. 2 at 10568 V.D.
WELL HEAD PRESSURE TAKEN WITH DEAD WEIGHT TESTER <input type="checkbox"/> NONE PRESSURE GAUGE <input type="checkbox"/> NONE							No. 566	No. 560
9 Dec. 1968	1650						7798.25	
	1645					Initial hydrostatic	3917.02	3959.65
	1700					Opened well	3879.86	3935.71
	1715					Shut well in for initial build-up	4584.45	
	1730					4668.87	4668.87	
	1745						4047.22	
	1800						5143.16	
	1815						5268.40	
	1830						5356.88	
	1845						5418.29	
	1900						5462.73	
	1915						5495.43	
	1930						5518.08	
	1945						5541.91	
	2000					Opened well for final flow	5569.38	5422.92
	2005						3931.57	4014.00
	2015						3909.35	
	2030						3904.10 ↓	

SURFACE AND BOTTOM HOLE READINGS

DATE	TIME	SURFACE				BOTTOM HOLE READINGS		
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		PRESSURES PSIG	
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG	TEMP. °F	Recorder No. 1 at V.D.	Recorder No. 2 at V.D.
	2045						3903.29	
	2100						3906.92	
	2115						3912.18	
	2130						3919.05	
	2145						3927.12	
	2200						3956.01	
	2215						3944.90	
	2230						3955.38	
	2245						3962.27	
	2300						3970.35	
	2315						3978.84	
	2330						3986.92	
	2345						3994.59	
10/20/68	0000						4002.27	
	0015						4009.14	
	0030						4015.20	
	0045						4021.26	
	0100						4028.55	
	0115						4034.59	
	0130						4041.05	
	0145						4047.59	
	0200						4053.98	

SURFACE AND BOTTOM HOLE READINGS

DATE	TIME	WELL HEAD					RIG OBSERVATIONS	BOTTOM HOLE READINGS	
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM			PRESSURES PSIG	
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG	TEMP. °F		Recorder No. 1 at V.D.	Recorder No. 2 at
	0215							4059.64	
	0230							4064.89	
	0245							4069.74	
	0300							4074.18	
	0315							4078.62	
	0330							4082.26	
	0345							4086.30	
	0400							4089.94	
	0415							4094.38	
	0430							4098.82	
	0445							4103.27	
	0500							4108.12	
	0515							4112.56	
	0530							4117.00	
	0545							4121.04	
	0600							4121.04	
	0615							4129.93	
	0630							4133.57	
	0645							4137.61	
	0700							4142.46	
	0715							4147.71	
	0730							4152.96	

SURFACE AND BOTTOM HOLE READINGS

DATE	TIME	WELL HEAD					BOTTOM HOLE READINGS			
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		RIG OBSERVATIONS	PRESSURES PSIG		
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG	TEMP. °F		Recorder No. 1 at V.D.	Recorder No. 2 at V.D.	
	0745							4158.62		
	0800							4164.27		
	0815							4169.12		
	0830					Shut well in		4174.78	4144.37	
	0845							4454.75		
	0900							4687.45		
	0915							4892.68		
	0930							4984.80		
	0945							5056.71		
	1000							5108.02		
	1015							5148.42		
	1030							5183.56		
	1045							5215.08		
	1100							5246.59		
	1115							5278.50		
	1130							5303.96		
	1145							5329.81		
	1200							5351.63		
	1215							5369.81		
	1230							5383.54		
	1245							5395.26		
	1300					Released Packer. Final hydrostatic.		5407.78	5407.78	
								7544.14		

WELL PRODUCTION TEST

DATA

Company: Phillips Petroleum Company Norway  
 Well Number: 7/11-3X Field: Wilcat Country: Norway  
 Type of Test: Drillstem - Test 3  
 Date of Test, from: 11th December, 1968 to: 12th December, 1968  
 Rig or Platform: Ocean Traveler  
 Drilling Contractor: Odeco Norway  
 Formation Tested: No Information Interval: 10423 ft to: 10506 ft  
 Hole Size. Casing: 7" O.D.", 29 lbs/ft to: 10960 ft  
 Liner: \_\_\_\_\_ O.D.", \_\_\_\_\_ lbs/ft to: \_\_\_\_\_ ft  
 Open Hole: None I.D.", from: - ft to: - ft  
 \_\_\_\_\_ I.D.", from: \_\_\_\_\_ ft to: \_\_\_\_\_ ft  
 Driller's Mud Weight: 13.8 lbs/gal, or 103.0 cu.ft/lbs or 1.65 sp.g

<u>TEST STRING</u> (Bottom to top)	<u>Min.I.D."</u>	<u>Length: ft</u>
a <u>1 joint 3" tubing with bomb stop</u>	<u>2.992</u>	<u>31.95</u>
b <u>Baker Model 'R' Seating Nipple</u>	<u>2.750</u>	<u>0.86</u>
c <u>1 joint 3" tubing</u>	<u>2.992</u>	<u>31.26</u>
d <u>Baker Model 'F' Seating Nipple</u>	<u>2.750</u>	<u>0.92</u>
e <u>1 joint perforated 3" tubing</u>	<u>2.992</u>	<u>31.36</u>
f <u>Crossover</u>	<u>3.690</u>	<u>1.58</u>
g <u>7" BJ type FFC packer</u>	<u>2.500</u>	<u>6.38</u>
h <u>Crossover</u>	<u>2.440</u>	<u>2.01</u>
i <u>Tubing string</u>		
j		
k		
l		
m		

<u>DEPTH</u>	<u>Measured Depth ft.</u>	<u>Vertical Depth ft.</u>
Water Cushion: Weight <u>-</u> PSI/FT, top at . . . . .		
Test Tool. . . . .		<u>107 10375</u>
Centre of Packer & Packing Element . . . . .		<u>10378</u>
Centre of Perforated Pipe. . . . .		<u>10398</u>
Pressure Recorders: Am. <u>21642N</u> , <u>15000 psi</u> , <u>72 Hrs.</u>		<u>10419</u>
No. 1. Serial No. <u>14787</u> Range <u>250° F</u> , Clock <u>72</u> Hr		<u>10425</u>
No. Serial No. <u>566</u> Range <u>7100</u> PSI, Clock <u>90</u> Hr		<u>10457</u>
No. 3. Serial No. <u>560</u> Range <u>7100</u> PSI, Clock <u>180</u> Hr		<u>10468</u>
Bottom of Tail Pipe. . . . .		<u>10479</u>

\* Depth of Pressure Recorder is depth of pressure sensing device.

TEST PROCEDURE

11th December	1825	Opened well for clean up
	1835	Shut well in for initial build up
	2130	Opened well for final flow
12th December	0400	Shut well in for final build up
	0745	Released packer

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TEST RESULTS SUMMARY

TEST RESULTS SUMMARY (Pressures from Pressure Recorder No. 566)

- a. Initial and Hydrostatic pressure 7668.57 PSIG @ 10457 ft. vert. depth.  
corresponding to 14.2 lbs/gal, 106 lbs/cu.ft. 1.70 sp.g.
- b. Well clean up: 10 minutes; minimum BHP: 3871.78 PSIG
- c. Initial build up: 175 minutes; max. pressure: 5512.82 PSIG
- d. Total flowing period: 6 Hrs. 30 minutes.
- e. Minimum bottom hole flowing pressure: 3865.72 PSIG
- f. Total production: gas - MCF., oil - bbl, water - bbl.
- g. Average daily production: gas - MCF/D, oil - bbl/D, water - bbl/D.
- h. Final build up: 3 Hrs. 45 minutes; Max. pressure 5505.96 PSIG.

TEMPERATURE - °F from max. reading thermometer @ - ft. vert. depth.

ATTACHMENTS

- a. Well head measurements, rig activities and bottom hole flowing pressure.
- b. Final build up pressure: pressure readings only  computerised
- c. Separator readings and gas flow rate calculations.
- d. Liquid flow rates.

COMPANY: Phillips Petroleum WELL NO: 7/11-3X COUNTRY: Norway TEST NO: DST No. 3  
 DATE OF TEST: 11th December, 1968 to 12th December, 1968 FORMATION: N/A INTERVAL TESTED 10423 ft. to 10506 ft.

**SURFACE AND BOTTOM HOLE READINGS**

DATE	TIME	WELL HEAD				RIG OBSERVATIONS	BOTTOM HOLE READINGS		
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		PRESSURES PSIG		
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG		TEMP. °F	Recorder No. 1 at 10457 V.D.	Recorder No. 2 at 10468 V.D.
WELL HEAD PRESSURE TAKEN WITH DEAD WEIGHT TESTER <input type="checkbox"/> NONE PRESSURE GAUGE <input type="checkbox"/> NONE						No. 566	No. 560		
11 Dec. 1968	1820					Initial Hydrostatic	7668.57	7895.26	
	1825					Opened well	3955.61	3764.42	
	1835					Shut well in	3871.78	3740.87	
	1845						4157.81		
	1900						4616.35		
	1915						4917.55		
	1930						5155.69		
	1945						5255.88		
	2000						5339.10		
	2015						5392.43		
	2030						5432.02		
	2045						5461.92		
	2100						5484.14		
	2115						5501.92		
	2130					Opened well	5512.82	5196.03	
	2131						3912.58	3950.72	
	2145						3885.11		
	2200						3860.97		

## SURFACE AND BOTTOM HOLE READINGS

DATE	TIME	WELL HEAD					BOTTOM HOLE READINGS	
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		PRESSURES PSIG	
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG	TEMP. °F	Recorder No. 1 at V.D.	Recorder No. 2 at V.D.
RIG OBSERVATIONS								
	2215						3865.72	
	2230						3865.72	
	2245						3866.93	
	2300						3871.78	
	2315						3877.84	
	2330						3883.49	
	2345						3889.55	
	0000						3896.42	
12 Dec. 1968	0015						3904.10	
	0030						3912.18	
	0045						3920.26	
	0100						3928.34	
	0115						3936.82	
	0130						3944.50	
	0145						3950.96	
	0200						3958.23	
	0215						3965.10	
	0230						3970.76	
	0245						3976.82	
	0300						3982.07	
	0315						3987.72	
	0330						3993.78	
	0345						3999.84	





WELL PRODUCTION TEST

DATA

Company: Phillips Petroleum Company Norway  
 Well Number: 7/11-3X Field: Wildcat Country: Norway  
 Type of Test: Drillstem - Test 4  
 Date of Test, from: 12th December, 1968 to: 13th December, 1968  
 Rig or Platform: Ocean Traveler  
 Drilling Contractor: Odeco Norway  
 Formation Tested: No Information Interval: 10369 ft to: 10408 ft  
 Hole Size. Casing: 7" O.D.", 29 lbs/ft to: 10960 ft  
 Liner:  O.D.",  lbs/ft to:  ft  
 Open Hole: None I.D.", from: - ft to: - ft  
 I.D.", from:  ft to:  ft  
 Driller's Mud Weight: 13.8 lbs/gal, or 103.0 cu.ft/lbs or 1.65 sp.g

NOBLE  
 TEST

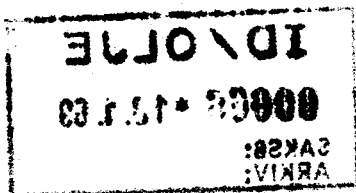
TEST STRING (Bottom to top)	Min.I.D".	Length: ft
a <del>1 joint</del> <u>3 1/2" tubing with bomb stop</u>	2.992	31.95
b <u>Baker Model 'R' Seating Nipple</u>	2.750	0.86
c <u>1 joint perforated 3 1/2" tubing</u>	2.992	31.36
d <u>1 joint 3 1/2" tubing</u>	2.992	31.26
e <u>Baker Model 'F' Seating Nipple</u>	2.750	0.92
f <u>Crossover</u>	3.690	1.58
g <u>7" BJ type FPC packer</u>	2.500	6.38
h <u>Crossover</u>	2.440	2.01
i <u>Tubing string</u>		
j		
k		
l		
m		

<u>DEPTH</u>	Measured Depth ft.	Vertical Depth ft.
Water Cushion: Weight <u>-</u> PSI/FT, top at <u>-</u> . . .		
Test Tool. . . . .		<u>10297</u>
Centre of Packer & Packing Element . . . . .		<u>10300</u>
Centre of Perforated Pipe. . . . .		<u>10352</u>
Pressure Recorders:		
No. 1. Serial No. <u>566</u> Range <u>7100</u> PSI, Clock <u>90</u> Hr		<u>10373</u> *
No. Serial No. <u>560</u> Range <u>7100</u> PSI, Clock <u>180</u> Hr		<u>10384</u> *
No. 3. Serial No. <u></u> Range <u></u> PSI, Clock <u></u> Hr		<u></u> *
Bottom of Tail Pipe. . . . .		<u>10394</u>

\* Depth of Pressure Recorder is depth of pressure sensing device.

TEST PROCEDURE

12th December	2245	Opened well for clean up
	2300	Shut well in for initial build up
13th December	0130	Opened well for final flow
	1115	Shut well in for final build up
	1640	Released packer



TEST RESULTS SUMMARY (Pressures from Pressure Recorder No. 566)

- a. Initial mud Hydrostatic pressure 7506 PSIG @ 10373 ft. vert. depth.  
corresponding to 14.0 lbs/gal, 105.0 lbs/cu.ft. 1.68 sp.g.
- b. Well clean up: 15 minutes; minimum BHP: 3790 PSIG
- c. Initial build up: 150 minutes; max. pressure: 5474 PSIG
- d. Total flowing period: 9 Hrs. 45 minutes.
- e. Minimum bottom hole flowing pressure: 3785 PSIG
- f. Total production: gas - MCF., oil - bbl, water - bbl.
- g. Average daily production: gas - MCF/D, oil - bbl/D, water - bbl/D.
- h. Final build up: 3 Hrs. 25 minutes; Max. pressure 5460 PSIG.

TEMPERATURE - °F from max. reading thermometer @ - ft. vert. depth.

ATTACHMENTS

- a. Well head measurements, rig activities and bottom hole flowing pressure.
- b. Final build up pressure: pressure readings only  computerised
- c. Separator readings and gas flow rate calculations.
- d. Liquid flow rates.



SURFACE AND BOTTOM HOLE READINGS

DATE	TIME	WELL HEAD					BOTTOM HOLE READINGS	
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		PRESSURES PSIG	
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG	TEMP. °F	Recorder No. 1 at V.D.	Recorder No. 2 at V.D.
RIG OBSERVATIONS								
	0245						3831	
	0300						3848	
	0315						3854	
	0330						3860	
	0345						3867	
	0400						3873	
	0415						3887	
	0430						3896	
	0445						3903	
	0500						3909	
	0515						3923	
	0530						3931	
	0545						3939	
	0600						3944	
	0615						3950	
	0630						3955	
	0645						3961	
	0700						3968	
	0715						3974	
	0730						3980	
	0745						3985	
	0800						3992	

## SURFACE AND BOTTOM HOLE READINGS

DATE	TIME	WELL HEAD					BOTTOM HOLE READINGS	
		CHOKE SIZE INCHES	UPSTREAM		DOWNSTREAM		PRESSURES PSIG	
			PRESSURE PSIG	TEMP. °F	PRESSURE PSIG	TEMP. °F	Recorder No. 1 at V.D.	Recorder No. 2 at V.D.
	0815						4004	
	0830						4010	
	0845						4015	
	0900						4019	
	0915						4022	
	0930						4024	
	0945						4027	
	1000						4031	
	1015						4034	
	1030						4042	
	1045						4046	
	1100						4051	
	1115					Shut well in	4056	
	1130						4512	
	1145						4824	
	1200						5023	
	1215						5142	
	1230						5217	
	1245						5268	
	1300						5309	
	1315						5345	
	1330						5360	

