



Province _____ Lease—Tract—Well No. _____ Field—Pool—Producing Zone _____ County _____ State _____

DRILL STEM TESTS

Drill Stem Test No.	1.	2.	3.	4.
Date	4-4-51	4-5-51	4-7-51	4-8-51
Name of Test Tool	Johnston	Johnston	Johnston	Johnston
Kind of Packer	8" formation	8" formation	8" formation	8" formation
Depth of Hole	9830	9868	9888	9918
Depth—Bottom of Packer	9809	9830	9868	9887
Name—Formation Tested	Pennsylvanian	Pennsylvanian	Pennsylvanian	Pennsylvanian
Interval Tested (If Open Hole, so State; or if Perforated casing, Give Top and Bottom of Perforations)	9809-9830	9830-9868	9868-9888	9887-9918
Water Load	2000'	2000'	2000'	2000'
Chokes (Bottom and Top)	5/8" - 1"	5/8" - 1"	5/8" - 1"	5/8" - 1"
Total Length of Time Tool Open	1 hour	1 hour	90 min.	2 hours
No. of Times & Elapsed Time Tool Opened Each Attempt	3-15,15,30	1 - 1 hr.	1 - 90 min.	1 - 2 hrs.
Surface Reaction: Type and Elapsed Time				
(1) Air	v/s bl for 5min	Weak blow died in 29 m.	*	*
(2) Gas	None	None	surface-45 min	surface-44 min
(3) Water Load (Specify if Charged with Oil or Gas)	None	None	None	None
(4) Drilling Mud (Specify if Cut with oil, Gas and/or Water)	None	None	None	None
(5) Oil/Gas (Estimate or Guage Quantity; % B. S. & /or water)	None	None	None	None
(6) Water (Specify kind and if cut with Oil and/or Gas or B. S.)	None	None	None	None
Recovery Fluid in Feet from Drill Pipe				
(1) Water Load	2000'	None	4000' O/G cut	**
(2) Mud	125' Drlg.	30' Drlg.	***	None
(3) Oil and Gas	None	None	750' clear oil	None
(4) Water—Kind? (i.e. Salt or Sulphur, Fresh, etc.)	None	None	None	**
BHP Flowing	750#	875#	1250#	Not obtained
BHP Shut In	750#	1000#	Not obtained	Not obtained
Rate Flow Oil and Gas	None	None	None	None
Gas/Oil Ratio BS & W	None	None	None	None

REMARKS: (Should Indicate Reaction after Tool Closed and While Coming out of Hole. Specify.)

***Strong blow continued throughout test **Reversed out an estimated 3000' Heavily oil & gas out water cushion circulating out 2000' above tool.**

*****70' heavily O/G cut mud, 490' sulphur water cut mud.**

DRILL STEM TESTS

Drill Stem Test No.	5.	6.	7.	8.
Date	4-10-51	4-11-51	4-12-51	4-13-51
Name of Test Tool	Johnston	Johnston	Johnston	Johnston
Kind of Packer	8" formation	8" formation	8" formation	8" formation
Depth of Hole	9958'	9958'	9990'	10,012'
Depth—Bottom of Packer	9917'	9907'	9939'	9979'
Name—Formation Tested	Pennsylvanian	Pennsylvanian	Pennsylvanian	Pennsylvanian
Interval Tested (If Open Hole, so State; or if Perforated casing, Give Top and Bottom of Perforations)	9917-9958	9907-9958	9939-9990	9979-10,012
Water Load	2000'	2000'	2000'	2000'
Chokes (Bottom and Top)	5/8" - 1"	5/8" - 1"	5/8" - 1"	5/8" - 1"
Total Length of Time Tool Open		90 min.	90 min.	90 min.
No. of Times & Elapsed Time Tool Opened Each Attempt		1 - 90 min	1 - 90 min	1 - 90 min.
Surface Reaction: Type and Elapsed Time				
(1) Air		St blow thru test	**	***
(2) Gas	Immediately	surf 46 min syrt.	74 min	None
(3) Water Load (Specify if Charged with Oil or Gas)		*	None	None
(4) Drilling Mud (Specify if Cut with oil, Gas and/or Water)	No test	None	None	None
(5) Oil/Gas (Estimate or Guage Quantity; % B. S. & /or water)		None	None	None
(6) Water (Specify kind and if cut with Oil and/or Gas or B. S.)		None	None	None
Recovery Fluid in Feet from Drill Pipe				
(1) Water Load		None	None	2,000'
(2) Mud		90' Hev O/G cut	270' cut w/S.W.	180' cut w/SW
(3) Oil and Gas		950' clean oil	220' oil	None
(4) Water—Kind? (i.e. Salt or Sulphur, Fresh, etc.)		520' slightly sulph.	210' S.W.	3250' Sulph water
BHP Flowing		2300#	975#	2510#
BHP Shut In		3150#	2050#	2690#
Rate Flow Oil and Gas		None	None	None
Gas/Oil Ratio BS & W		None	None	None

REMARKS: (Should Indicate Reaction after Tool Closed and While Coming out of Hole. Specify.)

***Pipe unloaded w/8920' pipe in hole, unloaded all of water cushion, free oil & gas**

****Weak blow gradually increased to strong blow in 45 min. and remained strong.**

*****Strong blow decreased to weak blow in 25 min remained weak.**

Above Correct—Signature _____

Title _____

Date _____

IT IS RECOMMENDED THIS INFORMATION BE COMPILED ON DERRICK FLOOR AND ORIGINAL BE PERMANENTLY RETAINED IN WELL RECORD.

WT-NM	State "S" #1	Saunders	Lea	New Mexico
Province	Lease—Tract—Well No.	Field—Pool—Producing Zone	County	State

DRILL STEM TESTS				
Drill Stem Test No.	9.	10.	11.	12
Date	4-18-51	4-20-51	4-24-51	4-25-51
Name of Test Tool	Johnston	Taylor	Taylor	Johnston
Kind of Packer	Hookwall	Hookwall	Hookwall	Hookwall
Depth of Hole	9977	9977	9942	9942
Depth—Bottom of Packer	9924	9914	9890	9897
Name—Formation Tested	Pennsylvanian	Pennsylvanian	Pennsylvanian	Pennsylvanian
Interval Tested (If Open Hole, so State; or if Perforated casing, Give Top and Bottom of Perforations)	9946-9956	9946-9956	9890-9942	9932-9942
Water Load	None	None	None	2000'
Chokes (Bottom and Top)	5/8" - 1/2"	5/8" - 3/4"	5/8" - 3/4"	5/8" - 3/4"
Total Length of Time Tool Open	27½ hrs	21 hrs 54 min	1 hour	45 hrs 40 min
No. of Times & Elapsed Time Tool Opened Each Attempt	1 - 27½ hrs	1-21hrs 54 min	1 - 1 hour	1-45 hrs 40 min.
Surface Reaction: Type and Elapsed Time				
(1) Air	Strong blow	*	**	***
(2) Gas	surf 11 min	surf 5 min	None	surf 1 hr 50 min
(3) Water Load (Specify if Charged with Oil or Gas)	None	None	None	surf 5 hr 40 min
(4) Drilling Mud (Specify if Cut with oil, Gas and/or Water)	Surf 2 hr 8 min	surf 8 hr39min	None	None
(5) Oil/Gas (Estimate or Guage Quantity; % B. S. & /or water)	Surf 2 hr 11 min	Oil 8 hr 39 min	None	None
(6) Water (Specify kind and if cut with Oil and/or Gas or B. S.)	None	None	None	None
Recovery Fluid in Feet from Drill Pipe				
(1) Water Load	None	None	None	None
(2) Mud	None	None	None	None
(3) Oil and Gas	None	None	None	None
(4) Water—Kind? (i.e. Salt or Sulphur, Fresh, etc.)	None	None	15" fresh	None
BHP Flowing		2120#	0	
BHP Shut In			0	None
Rate Flow Oil and Gas	None	None	None	None
Gas/Oil Ratio BS & W	None	None	None	None

REMARKS: (Should Indicate Reaction after Tool Closed and While Coming out of Hole. Specify.)

*Opened with very strong blow - died in 9 hrs & 9 min.

**Weak blow - died in 1 min.

***Weak blow - increased to strong blow.

DRILL STEM TESTS				
Drill Stem Test No.				
Date				
Name of Test Tool				
Kind of Packer				
Depth of Hole				
Depth—Bottom of Packer				
Name—Formation Tested				
Interval Tested (If Open Hole, so State; or if Perforated casing, Give Top and Bottom of Perforations)				
Water Load				
Chokes (Bottom and Top)				
Total Length of Time Tool Open				
No. of Times & Elapsed Time Tool Opened Each Attempt				
Surface Reaction: Type and Elapsed Time				
(1) Air				
(2) Gas				
(3) Water Load (Specify if Charged with Oil or Gas)				
(4) Drilling Mud (Specify if Cut with oil, Gas and/or Water)				
(5) Oil/Gas (Estimate or Guage Quantity; % B. S. & /or water)				
(6) Water (Specify kind and if cut with Oil and/or Gas or B. S.)				
Recovery Fluid in Feet from Drill Pipe				
(1) Water Load				
(2) Mud				
(3) Oil and Gas				
(4) Water—Kind? (i.e. Salt or Sulphur, Fresh, etc.)				
BHP Flowing				
BHP Shut In				
Rate Flow Oil and Gas				
Gas/Oil Ratio BS & W				

REMARKS: (Should Indicate Reaction after Tool Closed and While Coming out of Hole. Specify.)

Above Correct—Signature_____

Title_____

Date_____

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