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LEYDA # 1

WELL NAME: Leyda # 1

LOCATION: SENW Section 34, 31-15, Montgomery Co., KS.

ELEVATION: 800 Feet estimated topo map

TOTAL DEPTH: 1212' reached 2000 hours May 8, 2001.

SPUDDED: May 7, 2001 at 1000 hours.

CASING: 8 5/8" to 42', cemented to surface with 14 sxs.

HOLE SIZE: 12 1/2" to 42' and 6 3/4" to total depth.

LOGS RUN: None, will run cased hole logs later.

DRILLING CONTRACTOR: Mokat Drilling of Caney, KS. using a Schramm Air Rig, a Mission downhole bit (# 5831).

OPERATOR: Jones Gas Company of Wichita, KS. (# 32654)

SUPERVISION: Bill Stoeckinger, Geologist, of Bartlesville, OK.

STATUS: Running 4 1/2" production casing.

FORMATION TOPS: Top Pawnee Limes 630'; Fort Scott 710';
Mulky shale zone 782'; Cattleman sands poorly developed;
Weir coal 960' (5'); Top Bartlesville sands 1000' (83');
Riverton Coal 1177 (2'); Chat 1193'.

CONCLUSIONS: Weir coal gave a show of 60 Mcfgpd, the top of Bartlesville from 1002 to 1038' gave a gas show of 100 Mcfgpd. No significant show of oil, Mississippi is low and wet.

RECOMMENDATION: Run 4 1/2" production casing to total depth, cement to the surface and consider testing the Weir and Riverton coals.

OIL AND GAS SHOWS

Checks for gas were made continuously by checking the blewy line after connections with a lighted flare. The first gas was noticed at 938 feet and amounted to about 8 Mcfgpd or a very weak blow. This gas is believed to be coming from the very tight and oily siltstones at about 950 feet and slightly above the Weir coal.

While still in the middle of the Weir coal, the well tested at the rate of 60 Mcfgpd along with some water. The sand immediately below the Weir is gassy in offset wells, but in this well this sand is very shaly and gave up no gas. After cutting two very thin sands at 1002' and 1007' some new gas was suspected. The very good sand from 1026 to 1038' does not appear to carry water and is gassy. A test at 1038' showed 160 Mcfgpd flowing from the well, or an increase of 100 Mcfgpd.

The Bartlesville sand topped at 1095' and persisting to 1158' is very porous and carries huge amounts of water. As a consequence stopping to test the Riverton coal at 1177' was not possible. The top of the Mississippi is water bearing.

FORMATION EVALUATION

The primary objectives were the Mulky, Weir and Riverton coals as well as the top part of the Bartlesville sand. The Mulky gave up no gas. The Weir coal gave a gas show of 60 Mcfgpd, and the top of the Bartlesville another 100 Mcfgpd. The Riverton based on samples caught appears to be gassy.

DRILLING OPERATIONS

A 12 1/2" hole was spudded on Monday, May 7, 2001 and drilled to 42 feet before a hard formation was encountered for a suitable landing of the 8 5/8" surface casing which was cemented to the surface using 14 sacks of normal cement. The main 6 3/4" hole was then drilled the next day with the air rig to a total depth of 1212 feet and into the Mississippi limes without problems. Frequent stops were made to check for gas using a flare at the end of the blewy line. No significant gas was seen until hitting the Weir coal which gave up 60 Mcfgpd. The Bartlesville sand from 1095 to 1158 is very porous and carries large amounts of water.

Beil
Submitted by,

W.T. Stoeckinger
Attachment

Air Drilling
Specialist
Oil and Gas Wells



MOKAT DRILLING
Office Phone: (316) 879-5377



P.O. Box 590
Caney, KS 67333

Operator JONES GAS CORPORATION		Well No. #1	Lease Leyda	Loc.	1/4	1/4	1/4	Sec. 34	Twp. 31	Rge. 15		
		County Montgomery	State KS	Type/Well	Depth 1214'		Hours	Date Started 5-7-01	Date Completed 5-8-01			
Job No.	Casing Used 41' 8 5/8"	Bit Record				Coring Record						
		Bit No.	Type	Size	From	To	Bit No.	Type	Size	From	To	% Rec.
Driller DAVID	Cement Used			6 3/4"								
Driller	Rig No.											
Driller	Hammer No.											

Formation Record

From	To	Formation	From	To	Formation	From	To	Formation	From	To	Formation
0	24	overburden	415	455	shale	809	827	shale	1024	1059	sand
24	36	shale	455	487	lime	812		gas test (no gas)	1039		gas test 16 lbs 1/2
36	41	lime	487	496	shale	827	832	lime	1059	1095	sandy shale
41	63	shale	496	508	lime	832	842	shale	1095	1156	sand
63	67	lime	508	517	shale	842	866	sandy shale	1156	1177	limey shale
67	72	shale	517	525	lime	866	868	coal	1177	1179	coal
72	86	lime	525	530	limey shale	868	894	shale	1179	1193	shale
86	88	limey shale	530	610	sandy shale	894	899	sand	1193	1197	lime MISS
88	88	sandy shale	610	630	limey shale	899	916	shale	1197	1199	chat
88	99	coal	630	632	lime	914		gas test (no gas)	1199	1214	limey chat
99	151	shale	632	633	coal	916	934	sand			
151	171	lime	633	653	lime	934		gas test 1 lb 1/4"			
171	200	limey shale	653	667	shale	934	948	shale			
200	205	shale	667	672	sand	948	952	sand			
205	232	lime	672	681	shale	952	955	sandy shale			T.D. 1214'
232	284	sand	681	722	sandy shale	955	957	shale			
284	285	coal	687		gas test (no gas)	957	965	coal			
285	300	limey shale	722	751	lime	964		gas test 8 lbs 3/8"			
300	319	sand	751	761	shale	965	972	shale			
319	327	sandy shale	761	781	lime	972	984	sand			
327	348	lime	781	784	blk shale	984	986	shale			
336		gas test (no gas)	784	786	coal	986	987	coal			
348	380	shale	786	788	shale	987	1002	shale			
380	382	lime	787		gas test (no gas)	989		gas test (same)			
382	400	shale	788	794	lime	1002	1007	sand			
400	414	limey shale	794	807	shale	1007	1009	sandy shale			
414	415	coal	807	809	coal	1009	1020	sand			
						1020	1024	sandy shale			

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