

Martin K. Dubois

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December 13, 1984

GEOLOGIC REPORT
SIMCO Petroleum 1-1 Heim
60' West of NE NE NE
31-8S-22E
Leavenworth County, Kansas

Daily Progress:

12-6 Moved on, set 7" at 44' with 30 sacks, plug down at 4:30 p.m., shut down over weekend
12-9 Drilled out beneath surface casing at 11:50 p.m.
12-10 4 1/4", drilling at 7:00 a.m.
12-11 1318', drilling at 7:00 a.m., RTD 1355' reached at 11:19 a.m.
12-12 4 1/2" casing set at 1254' with 210 sacks, plug down at 1:25 a.m.

Service Companies:

Contractor: McGown Drilling Company
Drilling Mud: Hughes Drilling Fluids
Electric Logs: Great Guns
Cement: Consolidated Oil Well Services

Formation Tops (E-Log):

<u>Formations</u>	SIMCO 1-1 Heim 60' W of NE NE NE 31-8S-22E GL 918	Structural Relation to # 1 Baumgartner NW NW NW NW 32-8S-22E
Lansing	177 (+741)	-5
B. Kansas City	507 (+411)	-7
Cherokee	761 (+157)	-7
Coal Marker	1130 (-212)	-8
Lower McLouth SS	1243 (-325)	+2
Upper Burgess SS	1260 (-342)	-
Lower Burgess SS	1282 (-364)	-2
Miss. St. Louis	1293 (-375)	+7
Spergen	1310 (-392)	-6
Warsaw	1346 (-428)	
Total Depth	1353 (-435)	

Oil and Gas Shows (E-Log Depths):

- 1260-1268 Upper Burgess Sandstone
Sandstone, very light tan (oil stain), fine grained subrounded, well sorted, glauconitic, some is shaley, fair porosity, faint odor, very slight show of free gassy oil, increasing downward to slight show of free gassy oil. E-Log calculations: 17-20% porosity, 10-13 ohms resistivity, 57-61% water saturation, moderate gas effect on N/D porosity log. Possible gas zone.
- 1268-1272 Sandstone, brown oil stain, fine grained, subrounded, well sorted, glauconitic, good porosity, good odor, good show of free gassy oil. E-Log calculations: 22% porosity, 6 ohms resistivity, 70% water saturation. Wet zone, non-commercial.
- 1282-1292 Lower Burgess Sandstone
Sandstone, brown oil stain, fine grained, well sorted, glauconitic, good porosity, good odor, fair to good show of free gassy oil, increased to very good show downward, circulated fair amount of oil onto pits. E-Log calculations: 21-23% porosity, 18-40 ohms resistivity, 30-40% water saturation. Likely oil productive zone.

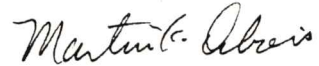
Summary and Recommendation:

Casing was run to 1354', one foot off bottom to further test oil and gas shows in the Burgess Sandstones. The 10 foot Lower Burgess Sandstone (1282-92) will likely be oil productive and the Upper Burgess Sandstone (1260-1272) may be gas productive.

The Lower Burgess, at 1282(-364), was 2 foot low to the S & V #1 Baumgartner, one location to the northeast. That well was initially perforated from -363 to -365, resulting in approximately 250 mcf gas production. Later perforations from -365 to -375 resulted in 15 to 20 BOPD plus 65 mcfpd gas production, natural. To stay out of the gas cap; it is therefore recommended that the captioned well be perforated from 1285(-367) to 1292(-374) with 2 to 4 shots per foot, and acidized with 250 gallons of MCA. Should the formation not yield adequate quantities of oil through swab testing, the formation should be treated with a conventional hydraulic fracture treatment with 3 to 5 thousand pounds of sand.

Though the Upper Burgess calculates wet on the electric logs, there is sufficient evidence that the zone may be gas productive to merit further testing. It is recommended that this zone be perforated after the Lower Burgess is depleted.

Respectfully submitted,



Martin K. Dubois
Geologist

MKD:md

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Mr. Fred Blume
P.O. Box 504
Cheyenne, Wyoming 82003

Re: SIMCO #1-1 Heim
Casing, float equipment,
cementing, and completion

Dear Fred,

Following is information for your records and for your completion engineer.

Casing and Float Equipment:

Total depth: 1355'

Casing: new 4 1/2" 9.5# casing set at 1354'

Float equipment: Automatic fillup guide shoe on bottom,
Centralizers at 1113, 1260, 1294, and 1320; metal pedal
basket at 934'.

Cementing by Consolidated Oil Well Services:

Wireline TD found at 1254'; ran preflush, AY-21 and formation water; ran 140 sacks of 50-50 posmix with 5% gilsonite and 6% salt (0-904'); ran 70 sacks of Oil Well Cement (904-1254'); maximum pressure while cementing was 300#; pump rubber wiper plug down and pressured up to 1000#; wireline TD was 1254'.

Recommended Completion:

Zones to be tested:

Upper Burgess Sandstone (1260-1272) - possible gas pay

Lower Burgess Sandstone (1282-1292) - likely oil pay

Recommended procedure:

Perforate Lower Burgess with 2 to 4 shots per foot from 1285 to 1292; acidize with 250 gallons of MCA by breaking the formation down very gently and very slowly, then feeding at a slow rate. Shut in for four hours, swab test; if production rate is unsatisfactory, treat with conventional hydraulic fracture with 3-5 thousand pounds of sand; shut in; swab test.

actual 1287-92

I recommend that you and your engineer talk to Jim Norris of S & V Oil (913-483-4376) prior to completing this well. He firmly believes that some of his problems on his wells, other than the Baumgartner, were caused by the fluids introduced during stimulations.

Respectfully submitted,



Martin K. Dubois

MKD:md