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COLO. OIL & GAS CONS. COMM.

WELL DATA SUMMARY

Operator: Warren Knight  
Lease: 1 Gillham  
Location: C NE SW Section 17-T9N-R52W  
Logan County, Colorado  
Elevation: 3974 GL, 3982 KB  
Spud: 1-3-76  
Completed: 1-9-76  
Total Depth: 4750 Driller, 4749' Logger  
Casing: 1. Ran 90' of 8-5/8" 24#, set at 100' and cemented with  
85 sacks regular cement 3% calcium chloride.  
Cores: None  
Dat's: 1. 4704-4713  
2. 4538-4550  
Electric Logs: 1. Schlumberger Induction Electrical Log from 4748' to 99'.  
2. Schlumberger Compensated Formation Density Log from  
4748' to 4400'.  
Rig Type: U-34 double  
Contractor: Exeter Drilling Co., rig #5  
Pusher: Bob Fisher  
Mud: Plains Mud Co., gel & chemicals  
Status: D&A, 15 sacks bottom of surface pipe. 10 sacks top with plate  
welded across open end of pipe as per instructions from  
Colorado Oil & Gas Conservation Commission.

75-1074

SAMPLE DESCRIPTIONS CONTINUED

- 4540 - 4550' Sdst., wht-tan, fg., sr., appears stnd. in pt., low vis. poro., good fl. in 70% of sdst., fair cut after crushing.
- 4550 - 4580' Sdst., wht., mg., sr., cln., low to fair vis. poro., no shows.
- 4580 - 4620' Sh., dk. gr..
- 4620 - 4640' Siltst.. dk. gr..
- 4640 - 4650' Sdst., gray-blk., vfg., cf., shly., no vis. poro., no shows.
- 4650 - 4660' Sdst., tan, mg.-fg., sr., cln., vis. stn. in 90% of sample, good fl., sli cut, good cut after crushing, some of the fg. sdst., cf., no vis. poro., no shows.
- 4660 - 4670' Sh., dk. gr., sdst., vfg., shly., no shows, no poro.
- 4670 - 4690' Sdst., tan-gray, mg-fg., sr., cln., low to fair vis poro., fl. stn., cut in 50% of sdst.
- 4690 - 4700' Sdst.. wht., mg., sr., cf. to qtzitic, low vis. poro. to no vis. poro., no shows.
- 4700 - 4725' Sdst.. tan-wht., mg.. sr., poro., cln., good fl. stn & cut.
- 4725 - 4745' Sdst., wht., fg-mg., sr., soft, cf. for the most part, sli poro., water wet, no shows.
- 4745 - 4750' Shale, dk. gr..

REMARKS

The Warren Knight 1 Gillham well encountered numerous shows in the Dakota Group sands. Drill stem tests and the electric log analysis proved conclusively that the well was incapable of commercial oil or gas production consequently the well was plugged and abandoned in accordance with instructions from the Colorado Oil and Gas Conservation Commission.

Respectfully submitted,

*Robert M. Dahlgren*  
Robert M. Dahlgren (p/m)

CHRONOLOGICAL SUMMARY

1-3-76 Spudded. set surface and cemented, plug down 10:00 P.M.  
 1-4-76 590' at 7:00 A.M., nipple up and trip in hole with bit at 12:00 P.M.,  
 work on pump, tighten liner, drlg., work on pump valve cap, drlg..  
 1-5-76 3008' at 7:00 A.M., trip for bit, drlg..  
 1-6-76 4439' at 7:00 A.M., drlg.. repair rotary chain, drlg., trip for new  
 bit, strap pipe, 4' up hole correction drain and remove standby pump,  
 rig up D-300, trip in hole, work on pump.  
 1-7-76 4554' at 7:00 A.M., work on pump, run pipe to bottom, couldn't circ.,  
 pump clutch slipping, pull out above Niobrara and broke circulation,  
 back to bottom drilling, repair mud line union on pump, valve cap  
 gasket and screen, drlg., repair pump air valve, drlg., tighten low  
 drive chain, drlg., repair rotary chain, drlg., work on pump, drlg..  
 1-8-76 4715 at 7:00 A.M., drlg., straighten drlg. line on drum, pull bit #3,  
 hook up hydromatic and trip in hole with bit #4, mill on cone off #3  
 bit, drlg., 10:00 A.M., circ. for logs, thaw out hydromatic and adjust  
 weight indicator, trip out for logs, commenced logging at 2:30 P.M.,  
 finished logging at 5:30 P.M., pick up test tool, trip in hole, testing.  
 1-9-76 4750' Total Depth, testing, trip out, back in hole with Dst #2, work  
 on water lines, trip out with Dst #2, drain rig, tear down, go in hole  
 to lay down drill pipe. Well P&A as per instructions from Colorado  
 Oil and Gas Conservation Commission.

BIT RECORD

<u>RUN NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FEET</u>	<u>HOURS</u>
1	7-7/8	Smith	DTJ	3008	2908	20-3/4
2	7-7/8	Smith	DTJ	4439	1431	16 1/4
3	7-7/8	Smith	DT	4715	276	16 1/2
4	7-7/8	Smith	DGT	4750	35	3

DEVIATION

<u>DEPTH</u>	<u>DEGREES</u>
1100'	1/2
2102'	1/2
3008'	2
4004'	1 1/2
4439'	1 1/2
4715'	?

SCHLUMBERGER FORMATION TOPS

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>
Niobrara	3695'	+287'
Fort Hays	4046'	-64'
Carlile	4070'	-88'
Greenhorn	4292'	-310'
"X" Bentonite	4433'	-451'

SCHLUMBERGER FORMATION TOPS CONTINUED

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>
"D" Sand	4533'	-551'
"J" Sand	4643'	-661'
Total Depth	4749'	

DRILL STEM TEST

Drill Stem Test #1 4704-4713', open 10" shut in 60", open 60", shut in 60", preflow opened with good blow. inc. to bottom of bucket in 5" continued through flow period, open flow good, increased to bottom of bucket in 5" and remained steady. Recovered 500' gas above fluid, 810' total fluid, 120' SO&GCM (1.70 bbl), 690' GC. (8.28 bbl.), Recovered water RW 3.0 @ 64°F = 2050 PPM chloride.

Sampler Report

Total volume of sampler 2050 cc.  
Total volume of sample 2000 cc.  
Oil Trace  
Water 2000 cc.  
Mud None  
Gas 0.1 cu.ft.

Resistivity of water (rig) 10 @ 44°F, 730 PPM  
Resistivity mud pit sample 10 @ 48°F, 710 PPM

Drill Stem Test #2 4538-4550', open 60", shut in 60", tool opened with weak blow died in 45", recovered 5' of mud (0.03 bbl). IHP 2338, FHP 2299, IFP 43, FFP 33, FSIP 111.7

Sampler Report

Total volume of sampler 2050 cc.  
Total volume of sample 500 cc.  
Oil None  
Water None  
Mud RW 10.0 @ 44°F, 730 PPM, 500 cc.  
Gas None  
RW mud pit sample 10.0 @ 48°F, 710 PPM.

SAMPLE DESCRIPTIONS

Thirty foot samples were collected from 3700' to 4500' and 10' samples from 4500' to Total Depth. The samples were examined under the ultraviolet light and microscope for purposes of identification, reservoir qualification and for indications of oil or gas. Sample depths have been changed to correspond with Schlumberger measurements.

3700 - 4045' Shale, lt. gr., speckled, calc..  
4045 - 4070' Ls., wht., dns..  
4070 - 4290' Sh., dk. gr..  
4290 - 4300' Ls., brn., f-m. xln., fossiliferous.  
4300 - 4530' Sh, dk. gr., siltst. dk. gr..  
4530 - 4540' Sdst., gray-blk, fg-mg., sr. v.shly., no shows., sdst. wht-tan, f-mg., sr., calcitic, no poro., no shows.