

54-W

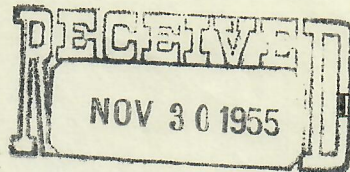
Locate
Well
CorrectlyFile in triplicate Fee and Patented lands and in
quadruplicate on state and School lands, with

OFFICE OF DIRECTOR

OIL AND GAS CONSERVATION COMMISSION,
STATE OF COLORADO

12-N

X			
	28		

OIL & GAS
CONSERVATION COMMISSION

LOG OF OIL AND GAS WELL

Field Cliff Company Sinclair Oil & Gas Company
 County Logan Address P. O. Box 9, Fort Morgan, Colorado.
 Lease H. S. Ayres
 Well No. 4 Sec. 28 Twp. 12N Rge. 54W Meridian 6th PM State or Pat. Pat.
 Location 1980 Ft. (S) of North Line and 660 Ft. West line of NW/4 Elevation 4733
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed George Kuehl
 Date NOV 29 1955 Title District Superintendent

The summary on this page is for the condition of the well as above date.
 Commenced drilling 10:00 AM 10-28, 19 55 Finished drilling 11-4, 19 55.

OIL AND GAS SANDS OR ZONES

No. 1, from 5694 to 5737 No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

SIZE	WT. PER FOOT	MAKE	WHERE LANDED	NO. OF SKS. CEMENT	STOOD HOURS	PRESSURE TEST PSI	TEST
8-5/8" OD	32	TW RL 10V	166	150	24	200	AJJ
5-1/2" OD	15.5 & 14	J55 SS R2 8R 5764		150	72	1000	DVR
2-3/8" OD	4.7	J55 SS R2 8R 5718					FJK
"ABOVE CASING & TUBING TALLIED THREADS OFF"							FILE

COMPLETION DATA

Total Depth 5765 ft. Cable Tools from _____ to _____ Rotary Tools from 0 to 5765
 Casing Perforations (prod. depth) from 56 98 to 5720 ft. No. of holes 56
 Acidized with None gallons. Other physical or chemical treatment of well to induce flow 4000 Gal. Sandoil
 Shooting Record None

Prod. began 11-12, 19 55 Making 200 bbls./day of 38.4 A. P. I. Gravity Fluid on swab Pump ☐
 Tub. Pres. _____ lbs./sq. in. Csg. Pres. _____ lbs./sq. in. Gas Vol. _____ Mcf. Gas Oil Ratio _____
 Length Stroke _____ in. Strokes per Min. _____ Diam. Pump _____ in.
 B. S. & W. _____ % Gas Gravity _____ BTU's/Mcf. _____ Gals. Gasoline/Mcf. _____

WELL DATA

Indicate (yes or no) whether or not the following information was obtained.
 Electrical Log Yes Date 11-4, 19 55 Straight Hole Survey Yes Type Sperry Sun
 Micro-log Yes Date 11-4, 19 55 Other Types of Hole Survey Yes Type Caliper
 Time Drilling Record _____
 Core Analysis _____ Depth 5699 to 5 726
 (Note—Any additional data can be shown on reverse side.)

FORMATION RECORD

Show all formations, especially all sands and character and contents thereof.

FORMATION	TOP	BOTTOM	REMARKS
Pierre	0	4850	Shale, light to dark gray, soft, pyritic, bentonitic, and with shell fragments.
Niobrara	4850	5178	Shale, light gray to slightly brownish gray, very calcareous, aragonite, pyrite and shell fragments throughout.
Ft. Hays	5178	5220	Limestone to silty limestone, white, chalky.
Codell	5220	5226	Siltstone, gray, calcareous, dirty.

(Continue on reverse side)

Carlile	5226	5439	Shale, gray to black, white bentonite, pyrite.
Greenhorn	5439	5554	Limestone, brown crystalline to dense, fair porosity in part, and shale, gray and black.
Graneros	5554	5694	Shale, gray to dark gray, fissile with vara-colored bentonite,
"D" Sand	5694	5737	Sands tone, very fine grained, gray, sub-angular, and shale, gray to black interbedded and reworked in part, good stain, odor and fluorescence where developed.
Graneros	57373	5765	As described above.

CORE DESCRIPTIONS: 5699-5732' Cut 33', recovered 33'; 1'0" sandstone, very fine grained, good odor, stain and fluorescence, 1'0" shale, black with silt stringers, 8'6" shale and sandstone, very fine grained, interbedded, some slightly reworked, 5'6" sandstone, very fine grained, good odor, stain and fluorescence, 5'0" sandstone, very fine to siltstone and shale interbedded, reworked but with odor, stain and fluorescence where sand present, 5'0" sandstone and shale, reworked, quartzitic, 1'0" sandstone and shale interbedded, odor, stain and fluorescence, tight, 4'0" sandstone and shale, reworked, quartzitic, 2'0" shale, black, platy.

SCHLUMBERGER TOPS:	Niobrara	500	4850	-	115
	Ft. Hays		5178	-	443
	Codell		5220	-	485
	Carlile		5226	-	491
	Greenhorn		5439	-	704
	Bentonite		5589	-	854
	"D" Sand		5694	-	959

DRILL STEM TESTS:

5699-5732' 1/2" choke, open 1 1/2 hours, shut in 15 Mins., strong blow immediately, gas to surface 23 mins., too small to measure. Recovered 1800' fluid, 1620' oil, 180' heavily oil and gas cut mud, FP 0-310#, SIP 1200#, Hyd.P 3020#.

COMPLETION:

- 11-5-55. Ran and cemented 5-1/2" OD casing set @ 5764' w/ 150 sks.; released Rotary tools; moved in Cable tools.
- 11-8-55. Casing swabbed and bailed hole dry. Ran Gamma Ray log, perforated "D" sand to through 5 1/2" casing w/ Super Jet shots 5698-5702 and 5710-5720 w/ 4 per foot, total 56. Casing swabbed 40 bbls. load oil and 28 bbls. new formation oil in 16 hrs., swabbed from bottom @ 3 bbls. oil, no water, some gas, per hour.
- 11-11-55 5733-PBTD - Ran Halliburton HM Packer set @ 5674' and treated "D" sand perforations w/ 60 gals. Control-Flow mixed with 64 bbls. oil; followed by 4000 gallons fracturing fluid mixed with 3500# sand, 400# adomite. Break down pressure 4500# to 3000#. Treating pressure 5300# @ 4.5 bbls. per Min. Flushed with 42 bbls. load oil. Pulled tubing, removed packer and casing.
- 11-12-55. swabbed 171 bbls. load oil in 6 hrs.
- 11-13-55 COMPLETED: Casing swabbed 200 bbls. 38.4 API Corr. Grav. Oil and 8 bbls. water in 24 Hours. Ran 2-3/8" OD UE Tubing to 5718', preparing to pump well.

CONSERVATION COMMISSION
OIL & GAS

