

52-W

9-N

	6		
	X		

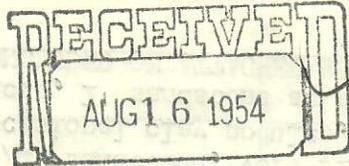
Locate Well Correctly

File in locate on Fee and Patented lands and in quadrants on State and School lands, with

OFFICE OF DIRECTOR

OIL AND GAS CONSERVATION COMMISSION, STATE OF COLORADO

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687



OIL & GAS CONSERVATION COMMISSION

LOG OF OIL AND GAS WELL



00238337

Field Bobcat Company Sinclair Oil & Gas Company
 County Logan Address P. O. Box 1809 - Casper, Wyoming
 Lease W. E. Dickinson, Jr.
 Well No. 1 Sec. 6 Twp. 9-N Rge. 52-W Meridian _____ State or Pat. Patented
 Location 330 Ft. (N) of South Line and 330 Ft. (W) of East line of NE/4 SW/4 Elevation 4046 G.L.
(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 [Signature]
Title Division Superintendent

Date July 22, 1954

The summary on this page is for the condition of the well as above date.

Commenced drilling 9:00 PM, June 29, 19 54 Finished drilling July 14, 19 54

OIL AND GAS SANDS OR ZONES

No. 1, from 4974 to 5064-TD 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
8-5/8"OD	32	SS	157	125	24	200
5-1/2"OD	14	J55 R2	5063	250	48	1000
2-3/8"OD	4.7	J55 R2	5032	Tubing		

COMPLETION DATA

Total Depth 5040-PBTD (5064-TD) ft. Cable Tools from _____ to _____ Rotary Tools from 0 to 5064-TD
 Casing Perforations (prod. depth) from 5020 to 5034 ft. No. of holes 67
 Acidized with None gallons. Other physical or chemical treatment of well to induce flow None
 Shooting Record None

Prod. began July 22, 19 54 Making 65 bbls./day of 17.0 A. P. I. Gravity Fluid on Swab Pump Choke
 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 July 14, 19 54 Straight Hole Survey Yes Type Sperry Sun
 Microlog _____ Date July 14, 19 54 Other Types of Hole Survey None Type _____
 Gamma Ray _____ Date July 18, 19 54 (Note—Any additional data can be shown on reverse side.)
 Time Drilling Record _____
 Core Analysis (See reverse side) _____ to _____

FORMATION RECORD

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

FORMATION	TOP	BOTTOM	REMARKS
PIERRE	0	3802	Shale, light to dark gray, very bentonitic and silty in part.
NIOBRARA	3802	4102	Shale, light to dark gray, with minute calcareous nodules, top 40 or 50' gradational zone, bentonitic in part, trace of pyrite and aragonite.
FORT HAYS	4102	4176	Limestone, white to buff, chalky.

(Continue on reverse side)

Produce

oil

CODELL	4176	4182	Sandstone, gray, fine-grained, vitreous, glauconitic, tight, limey, micaceous.		
CARLILE	4182	4405	Shale, light to dark gray, fissile and silty in part, trace of pyrite and aragonite.		
GREENHORN	4405	4545	Top 5' limestone, gray and brown, soft, argillaceous, mostly dark gray, fissile shale, streaks of bentonite, sandstone, hard, very fine-grained, very calcareous, and limey siltstone.		
GRANEROS	4545	4642	Shale, dark gray to black, medium hard, few thin beds of bentonite layers, fairly fossiliferous.		
D SAND	4642	4690	Sandstone, reworked, carbonaceous, very shaly, hard, tight, no shows, grades to sandstone, clean, porous, hard, no shows, bottom 10' alternating sandstone, hard, tight and shale.		
GRANEROS	4690	4760	Shale, dark gray to black, medium hard, few thin beds of bentonite layers, fairly fossiliferous.		
J SAND	4760	4852	Top 10' alternating sandstone, reworked and black shale, with next 15' sandstone, gray, fine-grained, good porosity and permeability, vertical fracture, grading to alternating sandstone and shale, bottom 50' sandstone, fine-grained, gray, good porosity and permeability, well cemented, clay filled with black mineral specks.		
SKULL CREEK	4852	4974	Shale, hard, black, brittle, occasional hard siltstone streaks.		
DAKOTA	4974	5064-TD	Sandstone, very fine-grained, hard, fair porosity, and permeability, dark gray to black, well cemented, with top 56' mostly dark gray, hard, brittle shale, few silt and sandstone streaks at top.		
GEOLOGICAL TOPS (Schlumberger)					
Niobrara	3802	(-244)		D Sand	4642 (-596)
Fort Hays	4102	(-56)		J Sand	4760 (-714)
Carlile	4182	(-136)		Skull Creek	4852 (-806)
Greenhorn	4405	(-359)		Dakota	4974 (-928)
SIZE HOLE DRILLED					
7-7/8" hole	0	to 161'	(Reamed 12-1/4" hole to 158')		
7-7/8" hole	161'	to 5064'-TD			
CORING RECORD					
4642-4692, "D" Sand, recovered 46'; lost 4' - 13-1/2' sandstone, reworked, dark gray, very fine-grained, hard, tight, very carbonaceous and shaly to bottom, no porosity and permeability, no shows, had bubbles, no odor, 16-1/2' sandstone, clean (mud invaded), gray at bottom, fine-grained, good porosity and permeability, hard, wet, with carbonaceous shale laminations top 3', bottom 5' vertical fractures, no shows, 1' alternating sand and shale, 1' shale, dark gray, with silt streaks, 3' sandstone, very fine-grained, hard, tight, gray, wet, no shows, 1' sandstone, with carbonaceous shale laminations, 5' alternating sand and shale, 5' shale, black, with very fine-grained sandstone and silt streaks, increasingly silty at bottom.					
4752-4802, "J" Sand, recovered 50' - 4-1/2' sandstone, reworked with carbonaceous shale, shale streaks, bottom no shows, 60% sand to 40% shale, 3-1/2' shale, black, with sand streaks, 14-3/4' sandstone, gray, fine-grained, good porosity and permeability, wet, vertical fractures, no shows, 1-1/4' shale, black, hard, silty, carbonaceous, 4' shale, black, hard, 1' sandstone, reworked, hard and tight, 70% sand, 30% shale, 5' alternating sandstone, with shale, sand fine-grained, poor porosity and permeability, hard, tight, vertical fractures, good stain and odor, scattered fluorescence, 1-1/2' sandstone, fine-grained, hard, tight, no porosity and permeability, laminated thin shale streaks, top 1" scattered stain and fluorescence, faint odor, 4' alternating sand and shale, 5-1/2' shale, black, hard, silty, 2-1/2' sandstone, reworked, fine-grained, hard, tight, very shaly, with occasional shale breaks, no shows, 2-1/2' sandstone, fine-grained, good porosity and permeability, gray, well cemented, clay filled, wet, no shows.					
5019-5034, Dakota, recovered 15' - 3/4' interbedded sandstone and shale, spotted oil stain (black), slight odor, 6-3/4' sandstone, very fine-grained, very hard, fair porosity and permeability, with occasional clay nodules, solid black oil stain, good odor, bleeding black oil in places, 1' sandstone as above, with numerous shale inclusions, (CONCLUDED ON ATTACHED SHEETS)					
Remarks			Bottom	Top	Formation

W. E. DICKINSON, JR. WELL NO. 1

CORING RECORD (CONT'D)

2' sandstone, very fine-grained, hard, fair porosity and permeability, solid black oil stain, good odor, bleeding black oil, 1' sandstone, very fine-grained, hard, tight, light brown, oil stain, good odor, very shaly, 3-1/2' sandstone, very fine-grained, hard, fair to poor porosity and permeability, solid black oil stain, bleeding oil in places.

5034-5049, Dakota, recovered 15' - 15' sandstone, black to dark gray, very fine-grained, very hard, fair porosity and permeability, well cemented, black oil stain, fair to good odor, top 2' bleeding black oil, bottom 13' appeared to be bleeding oil and water.

DRILL STEM TESTS

- DST 4781-4789, "J" Sand, w/straddle packer, 1/2" bottom choke, open 1 hour, recovered 15' mud, FP-0#. SIP-15"-0#.
- DST 5020-5034, Dakota, 1/2" bottom choke, open 2 hours, recovered 870' heavy black oil and 90' slightly oil cut muddy water. FP-0-325#. SIP-20"-1240#.
- DST 5034-5049, Dakota, 1/2" bottom choke, open 2 hours, recovered 20' heavy black oil, 90' oil cut mud and 1690' fresh water. FP-0-750#. SIP-20"-1400#.

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W. E. DICKINSON, JR. WELL NO. 1

330' f/South & East lines, NE/4 SW/4, Section 6-9N-52W, Logan County, Colorado

DRILL STEM TEST

DST 4640-4672, "D" Sand, 1/2" bottom choke, open 1 hour, strong blow 30 minutes, decreasing to very weak at end of test, recovered 2620' mud cut water. FP-470-1080#. SIP-15"-1230#.