

16-6S-37W

16

NORBLA OIL COMPANY
HOYT #1
SW NW Section 16-6S-37W
Sherman County, Kansas

OWLE

January 20, 1960

Norbla Oil Company
509 Philtower Building
Tulsa, Oklahoma

Attention: Mr. Keith Stapleton

Dear Sir:

The Norbla Oil Company's #1 Hoyt, SW NW Section 16-6S-37W, Sherman County, Kansas, was drilled to a total depth of 5051 feet.

One drill stem test was run in the Kansas City-Lansing section (4410-68), negative results were obtained. After drilling was completed, four Schlumberger wire line tests were run. These also obtained negative results.

Since the remaining zones were either tight or water saturated, it is recommended this hole be plugged and abandoned.

Yours truly,

C. S. Cannan

CSC/lp

cc

C. S. (STAN) CANNAN, CONSULTING GEOLOGIST, TULSA, OKLA.

NORBLA OIL COMPANY #1 HOYT
SW NW SECTION 16-6S-37W
SHERMAN COUNTY, KANSAS

Elevations - 3434.5 KB

3433 DF

3426 Gr

Casing and Cementing

320' of 8 5/8 @ 327.5 w/200 sx

Spudded - 12-12-59

Set Surface - 1-12-60

Completed Drilling - 1-13-60

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Clearcopy Onion Skin

FLUORESCENT

Black

Gleaned Onion Skin

WIRE LINE TESTS

No. 1

Toronto 4267

Rec 0
Pres 0#

No. 2

Topeka 4159

Rec 0
Pres 0#

No. 3

Wabunsee 3878

Rec 0
Pres 0#

No. 4

Attempted test in Kansas City-Lansing
4455'. Could not get packer seat.

DRILL STEM TESTS

Kansas City-Lansing - 4440-68 1 Hour
Recovered 61' of drilling mud.

Initial and final flow pressures
0#

Initial bottom hole shut in pressures
1300#

Final bottom hole shut in pressures
795# in 30 min.

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SAMPLE DESCRIPTION

Start 3000'

3000-3010 Red and gray shale
 3010-3320 As above with trace of sandy shale and anhydrite
 3320-3430 Red shale and sandy shale
 3430-3500 Red and gray shale and anhydrite
 3500-3610 Red and gray shale and sandy shale
 3610-3620 Chalky lime
 3620-3630 Sandy shale
 3630-3640 Chalky lime
 3640-3650 Red shale
 3650-3670 Shale and anhydrite
 3670-3680 Light gray to white sandy lime and gray crystalline lime
 3680-3690 Red shale, trace lime
 3690-3700 Gray highly fossiliferous slightly sandy lime - Gray finely succrosic dolomite
 3700-3740 Red beds, gray lime and chalk
 3740-3770 Gray shale
 3770-3780 Dense gray crystalline lime
 3780-3790 Gray to dark gray crystalline lime
 3790-3800 No sample
 3800-3910 Gray crystalline and microcrystalline lime
 3910-3930 Gritty gray lime
 3930-3950 Gritty gray lime with very few pieces with black asphaltic specks
 3950-4100 Lime and shale
 4100-4105 Gray crystalline lime
 4105-4115 White chalk
 4115-4120 Gray crystalline lime and chalk
 4120-4130 Trace of black carbonaceous shale
 4130-4140 Gray crystalline lime and chalk
 4140-4145 Gray to buff microcrystalline lime
 4145-4150 Black carbonaceous shale
 4150-4155 Dark gray crystalline lime and chalky lime
 4155-4160 Gray silty shale
 4160-4165 Chalky and gray shale
 4165-4170 Trace of gray chalky lime with black hard asphaltic specks
 No show
 4170-4175 Gray lime and chalky lime
 4175-4180 Reddish brown coarse textured shale
 4180-4185 Lime and shale
 4185-4190 Gray shale
 4190-4210 Gray crystalline and chalky lime
 4210-4215 Gray shale
 4215-4220 Gray crystalline and chalky lime
 4220-4225 As above and gray shale
 4225-4230 Gray shale
 4230-4235 Red sandy shale
 4235-4240 Gray crystalline lime
 4240-4250 Trace of black carbonaceous shale
 4250-4280 Brown crystalline lime and sandy lime - Red beds - twisted off at 4254'
 4280-4285 No sample
 4285-4300 Gray crystalline and chalky lime - Trace of gray chalky lime with few specks of hard asphalt. Very slight trace of hard tight crystalline lime with hard black asphaltic specks
 4300-4325 Gray crystalline and chalky lime. Some gray shale
 4325-4335 Light gray to white slightly crystalline and chalky lime - Black asphaltic specks - some dull fluorescence and cut

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- 4335-4340 Gray slightly sandy lime with show as above
- 4340-4345 Gray to buff crystalline lime. No show
- 4345-4355 As above plus chalky lime
- 4355-4360 Lime and gray shale - Trace of maroon shale
- 4360-4365 Gray to greenish-gray shale
- 4365-4370 Dense Gray crystalline lime - Maroon shale
- 4370-4375 Gray shale and sandy shale
- 4375-4385 Shale and lime
- 4385-4390 Gray to greenish gray, Maroon shale and black shale
- 4390-4400 Gray crystalline lime and chalky lime
- 4400-4410 Lime as above, abundant chert
- 4410-4415 Trace gray fine grain shaley sand - trace of black carbonaceous shale
- 4415-4420 Trace of black shale and red beds
- 4420-4425 Red beds
- 4425-4435 Limey shale and Red beds
- 4435-4450 Gray to dark gray crystalline lime and chalky lime
- 4450-4455 Brown crystalline, fossiliferous, finely oolitic, well saturated lime - Trace of porosity but generally very tight
- Gray shaley sand with black asphaltic specks - slight cut
- 4455-4460 As above, increase in sandy shale
- 4460-4465 Brown saturated lime as above
- 4465-4470 Brown saturated lime as above, saturated much lighter
- 4470-4475 Maroon and gray shale
- 4475-4480 As above, some lime
- 4480-4490 Porous, white to light gray crystalline and chalky lime, circulate @ 4490' for D.S.T.
- 4490-4495 Light gray to white crystalline and chalky lime
- 4495-4500 Gray shale
- 4500-4505 Lime and Red beds
- 4505-4510 Gray shale
- 4510-4520 Lime and shale
- 4520-4525 No sample
- 4525-4530 Chalky lime, gray crystalline lime, trace of fine grain shaley sand
- 4530-4545 No sample
- 4545-4555 Chalk and crystalline lime - Red beds
- 4555-4560 Lime - trace of gray shaley sand
- 4560-4600 Gray crystalline lime - Very slight trace of gray oolitic lime with dark staining. Good cut
- 4600-4610 Red beds
- 4610-4615 Gray crystalline lime
- 4615-4630 Sandy shale
- 4630-4645 Gray crystalline lime and chalky lime
- 4645-4660 Very slight trace of gray fossiliferous, crystalline lime with brown staining and cut. Vugular porosity
- 4660-4670 Gray crystalline and chalky lime - Trace of gray sandy lime
- No Show
- 4670-4680 Dense gray to buff lime - Gray oolitic lime with spotted brown staining. Cut and fluorescence - Tight very slight trace of pinpoint porosity
- 4680-4685 Gray crystalline lime. No show. Abundant chert
- 4685-4695 As above - Trace of lime with shale
- 4695-4700 Trace of lime with staining. No cut
- 4700-4705 Red beds
- 4705-4710 Hard gray crystalline lime - Red beds
- 4710-4720 Gray crystalline and chalky lime
- 4720-4725 Trace of gray slightly sandy lime and chert
- 4725-4730 Trace of black carbonaceous shale

4730-4735	Trace of black carbonaceous shale and gray shale
4735-4740	Gray mottled crystalline lime - chalky lime
4740-4745	Lime as above and chert
4745-4750	Black carbonaceous shale and chert
4750-4760	Hard Dense gray crystalline lime - chert
4760-4770	Lime as above, gray and black shale
4770-4780	Black lime - Gray shale - Chert
4780-4785	Dense gray to buff lime
4785-4795	Lime and Red beds
4795-4800	Dense gray crystalline lime and chalk
4800-4805	Lime as above and gray shale
4805-4810	Red and gray shale
4810-4820	Chalk and red shale
4820-4830	Lime - Trace of hard gray, fine-medium green sand
4830-4835	Gray sandy lime
4835-4840	Gray crystalline lime - Trace of sandy lime
4840-4845	Trace of gray sand - Abundant free sand grains
4845-4850	Gray sandy lime
4850-4855	Hard glassy medium-large grain sand - Limey sand. No Show
4855-4865	Sand - Variegated shale
4865-4875	Sand - Shale - Sandy lime
4875-4880	Gray to amber unsorted glassy to limey sand. No Show
4880-4895	Sand as above and shale
4895-4900	Shale
4900-4905	Cavings
4905-4910	Trace of gray lime
4910-4915	Gray lime - Trace of sand
4915-4920	Cavings
4920-4925	Red beds
4925-4935	Gray crystalline and chalky lime - Trace of sand
4935-4940	As above - Trace of gray oolitic lime
4940-4942	Gray shale - Trace of gray finely succrosic dolomite
4942-4945	Kelly correction
4945-4950	Gray shale and lime - Trace of dolomite
4950-4960	All shales
4960-4970	Shale - Lime - Trace of sand
4970-4975	Gray coarsely crystalline, earthy lime
4975-4980	Gray shale - Trace of dolomite
4980-4985	Gray to tan succrosic dolomite and shale - Trace of chert

Clearcopy Union Skin

BIT RECORD

Hoyt #1

<u>No.</u>	<u>Make</u>	<u>Type</u>	<u>Bit Size</u>	<u>Depth</u>	<u>Footage</u>	<u>Hours</u>
1.	Sec	S6-J(Rt)	7 7/8"	330-1856	1526	15 1/2
2.	Sec	S6(Rt)	7 7/8	1856-2160	304	8
3.	Htc	OWV	7 7/8	2160-2551	391	13
4.	Htc	OWV	7 7/8	2551-3084	533	25 1/4
5.	Sec	M4-N	7 7/8	3084-3452	368	19
6.	Sec	M4-N	7 7/8	3452-3742	190	
7.	Sec	M4-N	7 7/8	3742-3936	194	25 3/4
8.	Htc	OWV	7 7/8	3936-4253	318	26 3/4
9.	Sec	M4-N	7 7/8	4254-4427	173	23 1/4
10.	Htc	OWV	7 7/8	4427-4586	159	20 1/2
11.	Htc	OWV	7 7/8	4586-4710	124	19 1/4
12.	Htc	OWV	7 7/8	4710-4762	52	15
13.	Sec	M4-N	7 7/8	4762-4842	80	12
14.	Htc	W-7	7 7/8	4842-4942	100	23
15.	Htc	W-7	7 7/8	4942-5009	67	16 1/2
16.	Sec	H-7	7 7/8	5009-5048	39	

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Esbeck

DRILLING TIME REPORT

<u>DEPTH</u>	<u>DRILLING TIME</u>	<u>DEPTH</u>	<u>DRILLING TIME</u>
1 Foot Time			
3820-3830	15-9-9-9-10	9-7-2-6-6	4160-4170
40	3-4-4-4-4	5-6-5-8-5	80
50	3-4-6-7-8	6-8-7-6-8	90
60	4-7-8-6-7	2-7-8-4-12	4190-4200
70	6-6-12-12-8	6-7-4-7-7	10
80	7-8-7-8-4	12-9-8-12-10	20
90	10-7-7-8-5	1-4-5-5-4	30
3890-3900	4-3-5-4-3	4-3-4-3-3	40
10	3-4-3-3-4	4-5-6-6-5	50
20	9-10-10-7-9	10-10-5-5-5	60
30	4-4-4-5-5	5-6-6-5-9	70
40	6-7-5-5-4	7-3-3-3-4	80
50	8-7-6-7-4	3-5-5-7-6	90
60	5-5-3-7-4	7-9-8-5-5	4290-4300
70	5-8-7-7-4	5-7-3-9-8	10
80	5-8-8-6-6	5-5-5-3-3	20
90	5-5-4-4-5	5-5-6-3-3	30
3990-4000	7-11-5-5-3	1-5-6-6-5	40
10	5-3-3-3-4	4-4-2-4-5	50
20	5-5-3-5-4	3-2-4-4-5	60
30	5-5-5-5-5	6-6-5-2-4	70
40	4-5-4-4-3	4-5-5-5-5	80
50	7-3-6-4-4	2-2-3-3-4	90
60	2-2-3-3-4	4-4-3-5-7	4390-4400
70	8-3-5-10-10	4-5-1-1-1	10
80	3-2-1-2-2	2-5-4-1-1	20
90	2-1-2-2-4	4-6-8-3-2	30
4090-4100	4-4-5-4-4	1-5-4-4-5	40
10	4-5-3-4-5	5-5-4-2-3	50
20	5-5-5-4-4	3-5-4-3-5	60
30	7-6-9-5-5	5-5-5-5-3	70
40	3-3-3-8-11	6-4-4-4-5	80
50	11-9-7-4-6	4-6-6-4-5	90
60	6-5-5-7-5	7-5-5-8-7	4490-4500
			7-6-2-3-5
			5-4-4-2-4
			5-5-6-8-8
			11-9-8-6-5
			6-5-6-5-5
			4-4-3-3-5
			6-4-5-4-4
			4-4-4-4-6
			8-10-4-5-6
			4-5-4-6-5
			3-7-6-7-7
			5-5-6-7-9
			3-5-8-7-8
			5-5-5-5-4
			3-2-4-4-3
			6-5-4-6-7
			5-5-4-6-5
			4-5-4-3-6
			5-5-7-6-4
			6-5-5-5-6
			5-6-6-5-9
			10-10-12-11-10
			10-6-10-6-7
			7-9-11-10-6
			7-9-5-6-7
			5-4-5-6-4
			8-3-7-11-4
			6-9-6-6-13
			20-10-7-13-11
			11-19-23-18-14
			20-15-5-10-10
			7-6-8-8-8
			5-10-9-7-8
			6-7-8-9-6
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