



00283983

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MAR 28 1969

COLO. OIL &amp; GAS CONS. COMM.

Well: #1-X Buczkowskyj

Location: 610' FWL and 1900' FSL, NW/4 SW/4 Section  
23, T.12 N., R.56 W., Weld County, Colorado

Operator: Exeter Drilling Co.

Contractor: Exeter Drilling Co.

Elevations: 4919 Ground; 4928 K. B.

Casing: 9 jts., 347', of 8-5/8" set at 358' KB with 290  
sacks regular cement, 50-50 Pozmix, plus 3%  
CaCl<sub>2</sub>.

5-1/2" production casing is presently being run.

Well History:

- 1/21 Moved in, set surface.
- 1/22 Drilling @ .432'.
- 1/23 Drilling @ 3535'.
- 1/24 Drilling @ 5814'.
- 1/25 Drilling @ 6035'.
- 1/26 Drilling @ 6150'.
- 1/27 Drilling @ 6267'.
- 1/28 Laying down core barrel @ 6327'.
- 1/29 Drilling @ 6360'.
- 1/30 Running production casing.

Drill Stem Tests: None.

Cores: CORE #1 "J" Sand 6309 - 6333 (adjusted 6' down-  
hole to conform to log depths.)

6309 - 6311 Sandstone and black shale, intimately inter-  
deposited and laminated; sandstone is light gray,  
very tightly cemented, very fine-grained, uniform  
pale stain and fluorescence.

6311 - 6313 Sandstone, very fine-grained, well sorted, very  
tightly cemented, uniform pale stain and fluores-  
cence.

6313 - 6314 Shale, black, soft, with pockets of sandstone,  
very tightly cemented, poorly sorted, with some  
inclusions of tan and black coarse grain rounded  
shale pellets, no show.

Formation Log Tops: Bentonite 6069  
 "D" Sand 6174 -1246  
 "J" Sand 6279 -1351  
 Total Depth 6387 (6380 Driller)

Mud: On the morning of January 26, 1969, the mud had the following properties:

Weight 10.0#/gal.  
 Viscosity 53 API funnel  
 Water loss 4.8 cc/30 min.  
 Filter cake 2/32"

Bit Record:

No.	Size	Make	Type	Depth	Feet	Hours
1	7-7/8	Reed	YT3AJ	3308	2950	14-1/4
2	7-7/8	Smith	DT	5102	1794	22
3	7-7/8	Smith	DT	5861	759	19-3/4
4	7-7/8	Reed	YSI	6197	336	26
5	7-7/8	Reed	YSIG	6303	106	8-1/2
6	6-1/8	Christen.	Corehead	6327	24	8
7	7-7/8	Reed	TM	Reaming corehole	--	4-1/2
8	7-7/8	Reed	YSIG	6380	53	12-1/2

Deviation Surveys:

Depth	Degrees from Vertical
730	1/2°
1400	3/4°
3309	1-3/4°
3750	1-1/2°
5102	3/4°
5860	1°
6198	3/4°

Sample Description: (Lagged to Log)

6150 - 6174 Shale, black to gray, soft.

6174 - 6184 Sandstone, fine-grained, white, silty, and clay-filled, friable, light bluish-yellow fluorescence in more porous parts, generally tight, carbonaceous fragments.

Core #1 (cont'd)

6327 - 6328 Sandstone, extremely fine-grained to fine-grained, poorly sorted, very tightly cemented, common black shale laminae, no show, very pale tan color.

6328 - 6239 Sandstone as above.

6329 - 6333 Sandstone as above, white, no show.

Core Analysis:

(Log depths used)

Perm.

<u>Depth</u>	<u>Hor.</u>	<u>Vert.</u>	<u>Por.</u>	<u>Oil</u>	<u>Water</u>
6309-10	0.1	0.0	6.1	11.3	68.8
6310-11	0.7	0.3	10.5	0.0	48.5
6311-12	8.8	8.1	10.7	9.3	32.7
6312-13	0.1	0.0	6.0	16.6	61.7
6313-14	0.2	0.1	7.5	0.0	95.0
6314-15	3.3	2.6	10.1	9.9	37.6
6315-16	38.0	29.0	13.7	5.8	31.8
6316-17	9.3	9.1	11.5	6.9	40.0
6317-18	8.1	7.9	11.2	8.9	31.2
6318-19	50.0	47.0	13.1	8.3	28.2
6319-20	30.0	26.0	14.0	9.2	36.4
6320-21	91.0	84.0	13.0	11.5	37.7
6321-22	125.0	119.0	13.9	12.2	30.2
6322-23	140.0	138.00	13.2	12.1	32.5
6323-24	31.0	27.0	11.9	12.6	36.1
6324-25	107.0	93.0	13.5	15.5	30.3
6325-26	68.0	65.0	13.8	11.5	23.9
6326-27	65.0	61.0	12.0	12.5	40.8
6327-28	129.0	122.0	14.8	11.4	26.4
6328-29	46.0	44.0	14.9	11.3	55.0
6329-30	29.0	25.0	15.2	0.0	62.5
6330-31	35.0	34.0	15.1	0.0	76.1
6331-32	61.0	53.0	17.0	0.0	61.7
6332-33	49.0	44.0	15.5	0.0	62.6

Logs:

Schlumberger: I-ES and Combined FDC-Microlog.

Core #1 (cont'd)

- 6314 - 6315 Sandstone, very fine-grained, very tightly cemented, clean, no visible stain, uniform pale yellow fluorescence.
- 6315 - 6316 Sandstone, very fine-grained, well sorted, fluorescence as above, tightly cemented to fairly friable.
- 6316 - 6317 Sandstone as above, coaly inclusions, more tightly cemented.
- 6317 - 6318 Sandstone as above, uniform pale tan stain and fluorescence.
- 6318 - 6319 Sandstone as above, verticle fracture.
- 6319 - 6320 Sandstone, very fine-grained, with uniform pale yellow fluorescence, extremely tightly cemented, co-mingled with black shale.
- 6320 - 6321 Sandstone, fine-grained to very fine-grained, well sorted, tightly cemented and fairly friable, uniform tan stain and pale yellow fluorescence.
- 6321 - 6322 Sandstone as above.
- 6322 - 6323 Sandstone as above, more tightly cemented, shale laminae.
- 6323 - 6324 Sandstone as above, extremely fine-grained, becoming extremely tightly cemented and quartzitic.
- 6324 - 6325 Sandstone as above, tightly cemented, very fine-grained, fairly friable in part.
- 6325 - 6326 Sandstone as above, stain less dark.
- 6326 - 6327 Sandstone as above, extremely tightly cemented, quartzitic, verticle fracture, uniform light brown stain.

- 6184 - 6191 Sandstone, fine-grained, light brown oil stain, uniform solid yellow fluorescence, fair to good porosity, friable, clay matrix.
- 6191 - 6200 Sandstone, fine-grained, clay-filled, low porosity, apparently wet.
- 6200 - 6279 Shale, black to tan; trace pyrite; siltstone, tan to gray.
- 6279 - 6286 Sandstone, dirty, gray, shaly, tight, very light fluorescence.
- 6286 - 6292 Sandstone, fine-grained to very fine-grained to sucrosic, clay matrix, clear subrounded quartz grains, friable, fluorescence in 50% of sand, light pale yellow fluorescence, light cut.
- 6292 - 6303 Shale, black.
- 6303 - 6309 Thin streaks sandstone, interbedded with streaks of hard sandy shale. Sandstone is fine-grained, excellent porosity, very little cementation, good light brown oil stain, friable, some wet, with no shows.
- 6309 - 6333 Core #1.
- 6333 - 6364 Sandstone, fine-grained, white, clay-filled, good porosity, wet, no show.
- 6364 - 6368 Shale, black.
- 6368 - 6387 Sandstone, silty, hard, tight, no show.

Discussion:

This well was drilled to replace the #1 Buczkowskyj on which the casing collapsed. This well appears very similar to the #1 well. Both the "D" and "J" sands appear capable of oil production.

Jack D Gray  
 Jack D. Gray  
 Geologist

30 January 1969