



00333431 Department  
Casper Division



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Conoco Inc.  
907 North Poplar  
Casper, WY 82601  
(307) 234-7311

APR 16 1985

COLO. OIL & GAS CONS. COMM.

FINALS ON COMPLETED DRILLING WELLS

04/12/85

BIG BEAVER (CDT) - Precambrian - Washington County, CO. - 1.0000000 W.I.

State 16 #1 (Expl) CONFIDENTIAL - AFE 12-20-3668

Location: 330' FNL, 330' FWL, NW/NW Section 16, T3S, R56W  
Spud: 03-04-85 Rig Released: 03-30-85  
TD: 8,663' PBD: Surface Elevations: GL 4,705', KB 4,716', RB 11'  
API No.: 05-121-10166

Log Tops:

Niobrara	4,194'	Lyons	6,226'
Fort Hayes	4,520'	Stone Corral	6,374'
Carlile	4,565'	Wolfcamp	6,568'
Greenhorn	4,653'	Virgil	7,025'
"D" Sand	4,956'	Missouri	7,300'
Huntsman Shale	4,976'	Des Moines	7,645'
"J" Sand	5,006'	Atoka	8,166'
Skull Creek	5,194'	Morrow	8,319'
Lakota	5,270'	Mississippian (Osagean)	8,460'
Morrison	5,369'	Cambrian (Reagan)	8,582'
Permian	5,812'	Granite Wash	8,610'
Blaine Anhydrite	6,135'	Precambrian	8,659'

P&A'd on 03-30-85 w/Class "G" cement as follows:

<u>Plug No.</u>	<u>Formation</u>	<u>Interval</u>	<u>Sacks Cement</u>
1	Precambrian	8,655'-8,485'	50
2	Virgil	7,020'-6,952'	20
3	Stone Corral	6,460'-6,400'	35
4	Lyons	6,300'-6,226'	30
5	Lakota	5,340'-5,270'	30
6	"J" Sand	5,108'-5,006'	50
7	"D" Sand	4,964'-4,946'	20
8	Casing Shoe	627'- 497'	20

Left 10 sacks cement on location to spot surface plug w/after rig moved off. Received permission to P&A from Bill Smith w/the Colorado Oil & Gas Commission.

Condemns the Big Beaver structure. No further drilling activity planned for this area.

Final Gross Cost Estimate: \$309,100

FINAL REPORT



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BIG BEAVER (CDT) - Washington County, CO. - 1.0000000 W.I.

State 16 #1 (Expl) - AFE 12-20-3668

Location: 330' FNL, 330' FWL, NW/NW Section 16, T3S, R56W  
Elevations: GL 4,705', KB 4,716', RB 11'  
API No.: 05-121-10166  
Objective: Precambrian - 8,130'

03/05/85: Running in hole w/9 5/8" casing. Depth 600'. Made 600'. 12 1/4" hole. Surface formation. Spudded @ 7:00 p.m. on 03-04-85. Drilled to 600'. Circulated. Short trip. Circulated. Now running in hole w/9 5/8" surface casing. Dev.: 1/4° @ 319' and 600'. Native. MW 9.2#; Vis 58; WL NC; Chlorides 1,600. Cum. mud cost: \$670. Exeter #22. 1/2 - 0 - 0.  
Drilling Foreman: Realing/Trevino.

03/06/85: Drilling. Depth 1,027'. Made 427'. 7 7/8" hole. Ran in hole w/14 joints 9 5/8", 36#, K-55, ST&C casing w/shoe @ 597', collar @ 513', and cement basket @ 80'. Ran 3 centralizers. Circulated. Cemented casing w/280 sacks Class "G" plus 1/4#/sack Flocele. Had mud returns and 10 bbls. cement returns. W.O.C. Welded on head and nipped on BOP's. Tested BOP's to 1,000# - okay. Ran in hole w/bit. Drilled cement and shoe. Drilled to 610'. Ran leak-off test to 17.8 ppg EMW. Now drilling ahead. Native. MW 8.5#; Vis 28; WL NC; Chlorides 1,600. Cum. mud cost: \$670. Exeter #22. 1 1/2 - 0 - 0. Drilling Foreman: Trevino.

03/07/85: Running in hole w/bit. Depth 4,031'. Made 3,004'. 7 7/8" hole. Drilled and surveyed to 4,031'. Pulled out of hole. Changed bits. Now running hole. Dev.: 1/2° @ 1,090', 3/4° @ 2,606', 1° @ 3,092' and 3/4° @ 3,610'. LSND. MW 8.8#; Vis 28; WL 12; Chlorides 1,600. Cum. mud cost: \$892. Exeter #22. 2 1/2 - 0 - 0. Drilling Foreman: Trevino.

03/08/85: Pulling out of hole w/bit. Depth 4,992'. Made 961'. 7 7/8" hole. Carlile @ 4,450', Fort Hayes @ 4,495' and "D" Sand @ 4,943'. Ran in hole. Drilled and surveyed to 4,992'. Now pulling out of hole to change bit. Dev.: 1/4° @ 4,031' and 1° @ 4,519'. LSND. MW 9.4#; Vis 33; WL 9.2; Chlorides 1,600. Cum. mud cost: \$1,834. Exeter #22. 3 1/2 - 0 - 0.  
Drilling Foreman: Trevino.

03/09/85: Drilling. Depth 5,298'. Made 306'. 7 7/8" hole. Dakota formation. Ran in hole. Washed 900' to bottom. Now drilling ahead. BGG-4/6, TG-162.

<u>Tops:</u>	Carlile	4,550' (corrected)
	Greenhorn	4,652'
	Graneros	4,784'
	Huntsman	4,964'
	"J" Sand	5,026'



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BIG BEAVER (CDT) - Washington County, CO. - 1.0000000 W.I.

State 16 #1 (Expl) - AFE 12-20-3668

Location: 330' FNL, 330' FWL, NW/NW Section 16, T3S, R56W  
Elevations: GL 4,705', KB 4,716', RB 11'  
API No.: 05-121-10166  
Objective: Precambrian - 8,130'

03/09/85 (cont'd):

Show: 5,070'-5,093', 5-2-4 MPF, BGG 18-48-18, occasional brown oil stain, abundant bright yellow fluorescence.

Dev.: 1 3/4° @ 4,992'. LSND. MW 9.3#; Vis 35; WL 8.2; Chlorides 1,600.  
Cum. mud cost: \$3,157. Exeter #22. 4 1/2 - 0 - 0. Drilling Foreman:  
Trevino.

03/10/85: Drilling. Depth 5,658'. Made 360'. 7 7/8" hole. Skull Creek @ 5,136', Dakota @ 5,256' and Morrison @ 5,352'. Drilling and surveying ahead. BGG-3/5. Dev.: 2° @ 5,488'. LSND. MW 9.2#; Vis 34; WL 8.8; Chlorides 1,600. Cum. mud cost: \$3,965. Exeter #22. 4 3/4 - 3/4 - 0. Drilling Foreman: Trevino.

03/11/85: Drilling. Depth 5,860'. Made 202'. 7 7/8" hole. Permian @ 5,810'. Drilling ahead. BGG-1/3, CG-0. LSND. MW 9.2#; Vis 50; WL 10; Chlorides 1,600. Cum. mud cost: \$4,801. Exeter #22. 4 3/4 - 1 3/4 - 0. Drilling Foreman: Trevino.

03/12/85: Running in hole w/bit #5. Depth 6,013'. Made 153'. 7 7/8" hole. Permian @ 5,798' (corrected). Drilled to 6,013'. Pulled out of hole. Picked up bit #5. Now running in hole. BGG-1/3, CG-0. Dev.: 2 1/2° @ 6,013'. LSND. MW 9.2#; Vis 46; WL 9.2; Chlorides 1,600. Cum. mud cost: \$7,206. Exeter #22. 4 3/4 - 2 3/4 - 0. Drilling Foreman: Trevino.

03/13/85: Drilling. Depth 6,127'. Made 114'. 7 7/8" hole. Permian formation. Ran in hole w/bit. Washed 60' to bottom. Circulated out excessive shale caving. Now drilling ahead. BGG-2/3, TG-120. LSND. MW 9.2#; Vis 60; WL 8.8; Chlorides 1,600. Cum. mud cost: \$11,067. Exeter #22. 4 3/4 - 3 3/4 - 0. Drilling Foreman: Trevino.

03/14/85: Drilling. Depth 6,376'. Made 249'. 7 7/8" hole. Lyons formation. Drilled to 6,188'. Circulated samples. Drilled to 6,250'. Circulated samples. Now drilling ahead. BGG-3/4.

Breaks: 6,182'-6,188', 6-4-6 MPF, no show  
6,222'-6,250', 6-2-4 MPF, no show

LSND. MW 9.4#; Vis 78; WL 10; Chlorides 1,700. Cum. mud cost: \$15,887.  
Exeter #22. 4 3/4 - 4 3/4 - 0. Drilling Foreman: Trevino.

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**COLD OIL & GAS CONS. COMM.**

BIG BEAVER (CDT) - Washington County, CO. - 1.0000000 W.I.

State 16 #1 (Expl) - AFE 12-20-3668

Location: 330' FNL, 330' FWL, NW/NW Section 16, T3S, R56W  
Elevations: GL 4,705', KB 4,716', RB 11'  
API No.: 05-121-10166  
Objective: Precambrian - 8,130'

03/15/85: Drilling. Depth 6,540'. Made 164'. 7 7/8" hole. Blaine @ 6,184' and Lyons @ 6,222'. Drilling ahead. BGG-2/4. Dev.: 1° @ 6,400'. LSND. MW 9.3#; Vis 65; WL 9.6; Chlorides 1,700. Cum. mud cost: \$19,063. Exeter #22. 4 3/4 - 5 3/4 - 0. Drilling Foreman: Trevino.

03/16/85: Pulling out of hole. Depth 6,772'. Made 232'. 7 7/8" hole. Wolfcamp @ 6,566'. Drilled to 6,772'. Now pulling out of hole. BGG-2/3.

Breaks: 6,598'-6,610', 8-10/1-2/8-10 MPF, no show  
6,680'-6,750', 8-10/2-8/8-10 MPF, no show

LSND. MW 9.3#; Vis 70; WL 8.8; Chlorides 1,700. Cum. mud cost: \$20,558. Exeter #22. 4 3/4 - 6 3/4 - 0. Drilling Foreman: Trevino.

03/17/85: Drilling. Depth 7,012'. Made 240'. 7 7/8" hole. Wolfcamp formation. Pulled out of hole w/bit. Picked up 3 drill collars. Ran in hole w/new bit. Drilled. Changed rotary sprocket. Now drilling ahead. BGG-4/6. Dev.: 1° @ 6,772'. LSND. MW 9.2#; Vis 70; WL 9.2; Chlorides 1,700. Cum. mud cost: \$21,039. Exeter #22. 4 3/4 - 7 3/7 - 0. Drilling Foreman: Trevino.

03/18/85: Drilling. Depth 7,310'. Made 298'. 7 7/8" hole. Virgil @ 7,004'. Drilling ahead. BGG-3/5.

Breaks: 7,170'-7,172', 6-2-4-5 MPF, 3-5/12/3-5 BGG  
7,178'-7,180', 4-5/1-2/6-7 MPF, 3-5/12/3-5 BGG

Dev.: 1° @ 7,283'. LSND. MW 9.2#; Vis 69; WL 9.6; Chlorides 1,700. Cum. mud cost: \$ 22,567. Exeter #22. 4 3/4 - 8 3/4 - 0. Drilling Foreman: Trevino.

03/19/85: Drilling. Depth 7,583'. Made 273'. 7 7/8" hole. DeMoines formation. Drilling ahead. CG-9/12, BGG-10. Missouri @ 7,230'.

Break: 7,556'-7,559', 5-3-5 MPF, BGG/10-13-10

LSND. MW 9.4#; Vis 65; WL 9.6; Chlorides 1,700. Cum. mud cost: \$29,451. 4 3/4 - 9 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

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Elevations: GL 4,705', KB 4,716', RB 11'  
API No.: 05-121-10166  
Objective: Precambrian - 8,130'

03/20/85: Pulling out of hole. Depth 7,765'. Made 182'. 7 7/8" hole. DeMoines @ 7,490'. Drilled to 7,765'. Surveyed. Now pulling out of hole for bit. CG-7/8, BGG-5/6.

Show: 7,750', very residual ring-cut

LSND. MW 9.4#; Vis 57; WL 8.4; Chlorides 1,700. Cum. mud cost: \$31,144. 4 3/4 - 10 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

03/21/85: Drilling. Depth 7,905'. Made 140'. 7 7/8" hole. DeMoines formation. Pulled out of hole. Picked up new bit and ran in hole. Now drilling ahead. CG-4/5, TG-48, BGG-4/6.

Shows: 7,553'-7,562', 4-6/3-5/5-7 MPF, 4-13-4 BGG, weak ringing cut w/weak residual ringing;  
7,568'-7,572', 5-6/5-6/5-8 MPF, 4-19-4 BGG;  
7,602'-7,606', 5-7/5-7/7-9 MPF, 16 BGG peak;  
7,814'-7,817', 5-6/5-6/5-7 MPF, 26 BGG peak, very weak ringing cut w/weak residual ring;

Dev.: 3/4° @ 7,765'. LSND. MW 9.3#; Vis 84; WL 8.8; Chlorides 1,700. Cum. mud cost: \$33,247. 4 3/4 - 11 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

03/22/85: Drilling. Depth 8,077'. Made 172'. 7 7/8" hole. Atoka @ 7,812' and Morrow @ 8,006'. Drilling ahead. CG-6/8, BGG-3/5. LSND. MW 9.4#; Vis 78; WL 8; Chlorides 1,700. Cum. mud cost: \$34,062. 4 3/4 - 12 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

03/23/85: Drilling. Depth 8,248'. Made 171'. 7 7/8" hole. Cambrian formation. Drilling ahead. Morrow @ 7,960' (corrected) and Mississippian @ 8,150'. CG-2/4, BGG-1/3. LSND. MW 9.4#; Vis 75; WL 8.4; Chlorides 1,700. Cum. mud cost: \$35,988. 4 3/4 - 13 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

03/24/85: Drilling. Depth 8,447'. Made 199'. 7 7/8" hole. Morrow formation. Drilling ahead. BGG-1/3, CG-3/5. LSND. MW 9.4#; Vis 85; WL 8.8; Chlorides 1,700. Cum. mud cost: \$36,927. 4 3/4 - 14 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

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Location: 330' FNL, 330' FWL, NW/NW Section 16, T3S, R56W  
Elevations: GL 4,705', KB 4,716', RB 11'  
API No.: 05-121-10166  
Objective: Precambrian - 8,130'

03/25/85: Drilling. Depth 8,621'. Made 174'. 7 7/8" hole. Mississippian formation. Drilled to 8,566'. Surveyed. Pulled out of hole (SLM). Changed bit. Ran in hole. Washed 45' to bottom. Now drilling ahead. BGG-1, TG-35. Dev.: 1° @ 8,566'. LSND. MW 9.5#; Vis 85; WL 9.2; Chlorides 1,700. Cum. mud cost: \$37,369. 4 3/4 - 15 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

03/26/85: Logging. TD 8,663'. Made 34'. 7 7/8" hole. Precambrian formation @ 8,606'. Drilled to 8,643'. Circulated. Drilled to 8,655'. Circulated samples. Short trip. Circulated and surveyed. Pulled out of hole to log. Attempted to log. Tools not functioning. Repaired same. Now RIH with logging tools. Dev.: 1° @ 8,655'. LSND. MW 9.5#; Vis 84; WL 9; Chlorides 1,200. Cum. mud cost: \$37,854. 4 3/4 - 16 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

03/27/85: Circulating and preparing to relog. TD 8,663'. 7 7/8" hole. Precambrian formation. Made 3 runs with DLL/MSFL/GR/SP/Caliper from 8,655'-600'. Results questionable. Attempted to run FDC/CNL/GR/Caliper. Bad data. Rigged down Dresser. RIH with bit. Now circulating and waiting on new logging truck to relog. LSND. MW 9.2#; Vis 62; WL 9.6; Chlorides 1,700. Cum. mud cost: \$37,854. 4 3/4 - 17 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

03/28/85: Logging. TD 8,663'. 7 7/8" hole. Precambrian formation. Circulated and conditioned hole to log. Pulled out of hole. Rigged up Dresser. Tools failed. Dismissed Dresser. W/O Schlumberger. Ran DIL/Accoustic from 8,655'-597'. Now running FDC/CNL/GR/Caliper. LSND. MW 9.5#; Vis 85; WL 9.6; Chlorides 1,700. Cum. mud cost: \$38,181. 4 3/4 - 18 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

Niobrara	4,194'	Stone Corral	6,374'
Fort Hayes	4,570'	Wolfcamp	6,568'
Greenhorn	4,653'	Virgil	7,021'
"D" Sand	4,956'	Missouri	7,236'
"J" Sand	5,006'	Des Moines	7,645'
Skull Creek	5,194'	Atoka	8,166'
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Location: 330' FNL, 330' FWL, NW/NW Section 16, T3S, R56W  
Elevations: GL 4,705', KB 4,716', RB 11'  
API No.: 05-121-10166  
Objective: Precambrian - 8,130'

03/29/85: Circulating & W.O.O. TD 8,663'. 7 7/8" hole. Precambrian formation. Ran FDC/CNL/GR/Caliper from 8,655'-4,000'. Ran sidewall core gun. Shot 24 shots from 5,272'-5,439'. Recovered 23 shots. Rigged down loggers. Laid down drill collars. Ran in hole w/drill pipe open-ended to 8,640'. Now circulating and W.O.O. LSND. No other mud properties reported. Cum. mud cost: \$38,181. 4 3/4 - 19 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.

03/30/85: M.O.R.T. TD 8,663'. 7 7/8" hole. Precambrian formation. W.O.O. W.O. Halliburton. Laid down drill pipe and P&A as follows w/Class "G" cement:

<u>Plug No.</u>	<u>Formation</u>	<u>Interval</u>	<u>Sacks Cement</u>
1	Precambrian	8,655'-8,485'	50
2	Virgil	7,020'-6,952'	20
3	Stone Corral	6,460'-6,400'	35
4	Lyons	6,300'-6,226'	30
5	Lakota	5,340'-5,270'	30
6	"J" Sand	5,108'-5,006'	50
7	"D" Sand	4,964'-4,946'	20
8	Casing Shoe	627'- 497'	20

Left 10 sacks cement on location to spot surface plug w/after rig moved off. Received permission to P&A from Bill Smith w/the Colorado Oil & Gas Commission. Cleaned mud tanks and nipped down BOP's. Released rig on 03-30-85 @ 6:00 a.m. LSND. No other mud properties reported. Cum. mud cost: \$38,181. 4 3/4 - 20 3/4 - 0. Exeter #22. Drilling Foreman: Trevino.