



Case 2717

Consolidated Oil & Gas, Inc.

Executive Offices

4150 EAST MEXICO AVENUE
DENVER 22, COLORADO
PHONE 757-5441

November 14, 1962

Mr. A. L. Porter, Jr.
Oil & Gas Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Porter:

Re: Request for Hearing
Unorthodox Pictured Cliffs-Mesaverde Completion
Consolidated Champlin No. 2-35
SE Sec. 35-T27N-R4W, Rio Arriba Co., N. Mex.

This is to request permission for the above-referenced unorthodox completion to vary from that prescribed by R-1670, Par. A, Rule 2 of Section II of the Rules and Regulations, Oil Conservation Commission of the State of New Mexico.

Reason for this request is due to severe down-hole drilling conditions that would cause excessive expense to drill to the Dakota formation.

An early hearing date for this request would be very much appreciated. Offset Operators are being notified of this request.

Yours very truly,

CONSOLIDATED OIL & GAS, INC.

Robert B. Tenison, Vice President

WHW:pt

DOCKET MAILED

Date 11-21-62

El Paso Natural Gas Company

El Paso, Texas

November 19, 1962

ADDRESS REPLY TO
POST OFFICE BOX 990
FARMINGTON, NEW MEXICO

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Re: Unorthodox Pictured Cliffs -
Mesaverde Completion
Consolidated-Champlin No. 2-35
SE/4 of Section 35,
Township 27 North, Range 4 West,
Rio Arriba County, New Mexico

Gentlemen:

El Paso Natural Gas Company has been advised by Consolidated Oil and Gas, Inc., of their desire to complete the above captioned well as a Mesaverde - Pictured Cliffs completion in the SE/4 of Section 35, Township 27 North, Range 4 West, Rio Arriba County, New Mexico. This completion would be unorthodox insofar as the completion in the Mesaverde formation would be concerned.

This letter is to advise that El Paso Natural Gas Company has reviewed this request and we wish to advise that our company has no objection to the Commission granting this request.

Very truly yours,



D. N. Canfield
Area Manager
Geological & Exploration
Department

DNC:bjs

cc: Consolidated Oil and Gas, Inc.
4150 East Mexico Avenue
Denver 22, Colorado
Attention: Mr. Robert B. Tenison

Mr. Sam Smith
El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas

WELL: Champlin No. 2-35
1800' F/SL & 1680' F/EL, Sec. 35, T27N, R4W
FIELD: Basin Dakota-Tapicito Pictured Cliffs
COUNTY: Rio Arriba STATE: New Mexico
ELEVATIONS: 7058' GL
7069' KB

10/6/62

Spud 12:30 a.m. 10/6/62. Drilled 70' of 15" hole. Lost circulation.
Mixing third pit of mud with lost circulation material.

10/7/62

Required circulation at 70'. Drilled to 86', lost 100 bbls. mud, required circulating. Present operation, drilling 15" surface hole at 290', 1/2° deviation at 250'.

10/8/62

Depth 665'. Drilled 375' of sand and shale. Present operation, drilling with Bit 1. Ran 10 joints 10 3/4" 32.75#, range 2, S. T. & C. casing. Total pipe 329' set at 307' KB. Cemented with 325 sx. regular cement, 2% ca cl₂. Plug down 10 a.m. 10/7. Good returns on cement job. Pressured up to 1000# before drilling out, held OK.

10/9/62

Drilling at 1315', drilled 650' of sand and shale. Drilling with Bit 2. Mud 8.6. Vis. 42. Dev. 3/4° at 625', 1° at 1100'.

10/10/62

Depth 2053'. Drilled 738' of sand and shale. Present operation, drilling with Bit 3. Mud. 9.1. Vis. 46. Water loss 9.2. Mud cake 2/32. Dev. 3/4° at 1530', 3/4° at 1900'.

10/11/62

Depth 2533'. Drilled 408' of sand and shale. Trip for Bit 5. Mud 9.8 Vis. 51. Water loss 11. Dev. 1° at 2514'.

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10/12/62

Depth 2853'. Drilled 320' of sand and shale. Drilling with Bit 6. Mud 9.8. Vis. 52. Dev. 1° at 2514'.

10/13/62

Depth 3030'. Drilled 177' of sand and shale. Drilling with Bit 6. Mud 10. Vis. 53. Water loss 6.8. Dev. $3\frac{3}{4}^{\circ}$ at 2875', $3\frac{1}{2}^{\circ}$ at 2936', $2\frac{3}{4}^{\circ}$ at 2995'.

10/14/62

Depth 3237'. Drilled 207' of sand and shale. Drilling with Bit 7. Mud 10.1. Vis. 46. Water loss 9. Dev. $2\frac{3}{4}^{\circ}$ at 2995', $2\frac{1}{2}^{\circ}$ at 3091', $2\frac{1}{2}^{\circ}$ at 3174'.

10/15/62

Depth 3500'. Drilled 263' of sand and shale. Drilling with Bit 8. Mud 10. Vis. 60. Water loss 6.6. Lost 50 bbls. mud at 3495'. Dev. $2\frac{3}{4}^{\circ}$ at 3369'.

10/16/62

Depth 3667'. Drilled 167' of sand and shale. Present operation, making trip for Bit 10. Mud 9.8. Vis. 55. Dev. $2\frac{1}{3}^{\circ}$ at 3660'.

10/17/62

Depth 3882'. Drilled 215' of sand and shale. Present operation, tripping for Bit 11. Mud 10. Vis. 48. Dev. $3\frac{1}{4}^{\circ}$ at 3861'.

10/18/62

Depth 4075'. Drilled 193' of sand and shale. Drilling with Bit 11. Mud 10.1. Vis. 90. Water loss 8.2. Well has been logged and cleaned out to TD. After logging made trip and drilled 30' of new hole. Present operation, circulating and preparing to run $7\frac{5}{8}$ " casing.

10/19/62

TD 4075'. Circulated and conditioned hole, make short trip, pulled out of hole. Rigged up to run casing. Ran 127 joints $7\frac{5}{8}$ " 26.40#, J-55 casing. Total casing ran 4102.12' less above KB 29.00', pipe set at 4073.12' KB. Float collar at 4038' KB, one centralizer on shoe joint, one centralizer at 3859'.

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10/19/62 Cont'd.

Lost circulation at 5 p.m., 60' off bottom, mixed and regained circulation at 2 a.m. Cemented with 75 sx. class A cement, 168 cu. ft. Diacel "D" 4% CaCl_2 , 200 cu. ft. Pozmix, 4% gel, 2% CaCl_2 . Plug down at 3:30 a.m. 10/19. Good returns throughout cement job.

10/20/62

Nippled up, pressured up to 1000#. Present operation, blowing down at 1000'.

10/21/62

Finished blowing down, drilled float collar at 4038', drilled shoe at 4073'. Depth 4450'. Present operation, drilling with Bit 12. Dev. $1\frac{3}{4}^\circ$ at 4344'.

10/22/62

Depth 5060'. Drilled 610' of sand and shale. Present operation, drilling with Bit 14. Dev. $4\frac{1}{2}^\circ$ at 4532', $4\frac{3}{4}^\circ$ at 5025'.

10/23/62

Depth 5736'. Drilled 676' of sand and shale. Hit some moisture at 5736' at 6:30 a.m. Gas 5706'-5730' - 30' flare, 1" stream of water, 600 MCFD, 130' in Cliffhouse. Dev. 3° at 5300', 2° at 5640'.

10/24/62

Depth 5801'. Drilled 65' of sand and shale. Present operation, blowing hole. Note: Well was making 1" stream of water at 5736', no solid moisture at this time, well trying to dust at present.

10/25/62

Depth 5810'. Drilled 9' of formation. Well still not dusting, well not making solid moisture at present. Will try and make more hole and attempt to get well dusting. If well is not dusting by 4 p.m. will call in and discuss.

10/26/62

Depth 5841'. Drilled 31'. Well still making $1/4$ " stream of water. Used three sacks of seal powder. Could not shut water off. Pulled up inside intermediate pipe. Have been blowing one hour. Still making $1/4$ " stream of water. Present operation: blowing hole with supply gas at 3900' ($7\frac{5}{8}$ " intermediate set at 4073'). Water dried up at this point.

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10/27/62

While waiting on water and mud to get on location, went back to bottom, blew and cleaned hole. Drilled from 5841' to 5851', well started dusting. Drilled on to 5884'. Well stopped dusting. Started mixing mud in pits. Present operation, making trip to change bit.

10/28/62

Made trip for new pit. Finished mudding up. Present operation, drilling at 5937', drilled 50'. Mud 9.6. Vis. 75.

10/29/62

Depth 6060'. Drilled 120' of sand and shale. Drilling with Bit 16. Mud 9.6. Vis. 76. Water loss 6.2. Mud cake 1/32. PH 8.2.

10/30/62

Depth 6201'. Drilled 141' of sand and shale. Present operation, making trip for Bit 18. Mud 9.6. Vis. 68. Dev. 2° at 6182'. No mud lost last 24 hours.

10/31/62

Depth 6242'. Drilled 41' of sand and shale. Present operation, mixing mud. Lost circulation at 6242', pipe stopped at 6172'. Lost approximately 1500 bbls. of mud with no returns at all.

11/1/62

Dialog found pipe stuck at 5630', backed off at 5627', had good circulation at 4600'. Lost circulation again at approximately 5200' pipe open ended. Left 16 drill collars and one joint of drillpipe in hole. Present operation, attempting to regain circulation at approximately 5200'.

11/2/62

Good circulation, came out of hole with drillpipe, ran bit to 5637' top of fish. Conditioned mud in hole, came out of hole with bit. Mud 8.9. Vis. 110. Water loss 8. Present operation, going in hole with 6 3/8" washover shoe.

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11/3/62

Wash over 1 joint of drillpipe. Came out of hole, went back in, screw on to fish at 5637'. Rigged up Dialog back off 1 joint of drillpipe at 5668'. Recovered some. Present operation, went back in hole with washover pipe. Washing over collars at 5708'.

11/4/62

Washover pipe started torquing up and pressured up 40# over collars (5708'). Came out of hole with conventional shoe. Shoe was split, went back in hole with cutright shoe. Went back to 5708', 40' below top of fish. Torquing up and pressured up. Rigged up Dialog. Ran to top of jars, could not get through jars (too small of opening). Came out of hole, shoe indicated being over fish. Went back in with 2 joints of washover, left jars out. Present operation, going in hole with washover pipe.

11/5/62

Went back to 5708' with 6" washover pipe, still torquing up. Came out of hole, changed back to 6 3/8" washover pipe, went back in hole to 5708', washed over to 5739' (two drill collars). Present operation, in preparation to go in hole to catch fish to back two collars off. Mud 8.6. Vis. 103. Water loss 10. Had 6 1/2 hours washing over, 3 1/2 hours changing washover pipe, 1 1/2 hours running collar locator, ten hours trips, 2 hours circulating over fish. Good circulation, no loss of mud.

11/6/62

Attempted to screw in top of fish at 5668', could not screw into fish. Came out of hole, put overshot on, went back to top of fish at 5668', caught fish, ran Dialog freepoint, fish stuck at 5679'. Got loose from fish, came out of hole, put 3 joints 6 3/8" washover pipe on. Present operation, prep to start washing over. Mud 8.8. Vis. 160. Water loss 6.8. Will raise vis. to 200. Good circulation, have not lost any mud.

11/7/62

Washed over fish from 5668' to 5758', came out of hole with washover pipe, ran back in with overshot, caught fish, back off at 5728' (two drill collars), recovered same. Present operation, running 3 joints of 6 3/8" washover pipe, top of fish at 5728'. Mud 8.7. Vis. 150. Water loss 6.8.

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11/8/62

Washed over fish from 5728' to 5818', lost circulation at this depth. Pulled washover pipe into 7 5/8" casing. Started mixing mud up, until midnight had pumped in between 450 and 500 bbls. (2 pits) of mud with heavy concentrate of lost circulation material. Unable to read radio this a.m. but believe they are pumping in 3rd or 4th pit of mud.

11/9/62

Seven hours tripping, one hour servicing rig, 16 hours mixing mud, have mixed 3 pits of mud since 8 a.m. Approximately 900 bbls. pumped in, going in hole open end to run gel plug, hole standing full when we stopped mixing mud, had 50 % returns.

11/10/62

Went on to 5728' (top of fish), screwed in, pumped through drill collars with 50% circulation. Unscrewed from fish, pulled up to 5700'. Had lot of trouble with pump plugging up while mixing up material. Started pumping material away at 10:25 p.m. 11/9/62. Job completed at 1 a.m. Start pumping in at 350#. Final pumping pressure after material was displaced 500#. Instant shut in pressure 175#, end of 1 hour 75#. Mixed 40 sx. salt gel, 5 sx. lime, 7 sx. clay, 2 sx. King seal. Present operation, at 2000' cond. mud with full returns. Vis. 55. Mud weight 8.8.

11/11/62

Cond. mud to top of fish (5728'). Mud weight 8.6. Vis. 55. Came out of hole, ran washover pipe. Washover from 5728' to 5822', 94' with good circulation, one hour washing over. Came out of hole, ran back in hole open end, screw into fish. Rig up Dialog to run freepoint. Ran freepoint to 2800', got hung up. Pulled out of rope socket, ran overshot pulled instrument loose. Present operation, coming out of hole with instrument. Will unscrew from fish to pump bridge out of drillpipe.

11/12/62

Unscrewed from fish, circulated through drillpipe, screwed back into fish, went in with Dialog freepoint. Backed off 8 drill collars, left 6 in hole. Top of fish at 5961'. Came out of hole, lay 8 drill collars down, went back in hole to top of fish. Broke circulation, losing some mud. Picked up three stands above top of fish, broke circulation, had full returns. Present operation, circulating down at 5871', 90' above fish with full returns.

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11/13/62

Circulated down and over fish, to 5961' with good circulation. Came out of hole with washover pipe, went back in hole open end with pumper jars on. Screwed into fish, jarred for 30 minutes, fish came loose. Laying down fishing tools, all fish recovered.

11/14/62

Logging, had some trouble with logging unit.

11/15/62

Ran 67 joints of 5 1/2" OD, 8-round, 15.5#, Range 2, S.T. & C. casing for total of 2216.89'. Set at 6199' KB. Top of liner at 3982.11' KB. Ran cement basket at 5143.73' KB. Float collar at 6167.97' KB. Cemented with 240 sx. of 50/50 Pozmix. Plug down at 3:10 a.m. 11/15. Lost circulation just as circulation was started.

11/16/62

Attempting to move rotary rig. Ran temperature log, top of cement at 4700'.

11/17/62

Waiting on completion of rotary rig.

11/18/62

Waiting on rotary to move out. Shut down due to mud conditions.

11/19/62

Unable to move out rotary due to severe mud conditions.

11/20/62

Unable to finish moving out rotary due to severe mud conditions.

11/21/62

Unable to finish moving out rotary due to severe mud conditions.

WELL:

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11/22/62

Unable to finish moving out rotary due to severe mud conditions.

11/23/62

Unable to finish moving out rotary due to severe mud conditions.

State of New Mexico
Oil Conservation Commission



STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

December 26, 1962

Re: Case No. 2717
Order No. R-2396
Applicant:

Consolidated Oil & Gas, Inc.

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

A. L. Porter, Jr.

OTHER _____

SOUTHERN UNION PRODUCTION COMPANY

FIDELITY UNION TOWER

DALLAS 3, TEXAS

A. M. WIEDERKEHR
VICE-PRESIDENT

November 19, 1962

New Mexico Oil Conservation Commission
State Land Office Building
Santa Fe, New Mexico

Gentlemen:

We have been notified that Consolidated Oil & Gas, Inc. has requested an unorthodox Pictured Cliffs-Mesaverde completion for their Consolidated-Champlin No. 2-35, SE/4 of Section 35, T-27N, R-4W, Rio Arriba County, New Mexico.

Southern Union, as offset operator, has no objection to this application.

Yours very truly,

SOUTHERN UNION PRODUCTION COMPANY

AMW:t

cc: Consolidated Oil & Gas, Inc.
4150 East Mexico Avenue
Denver 22, Colorado