Consolidated Oil & Gas, Inc.

Executive Offices
312 UNITED STATES NATIONAL BANK BUILDING
DENVER 2, COLORADO
PHONE AMHERST 6-1306

September 25, 1959

Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Re: Our Government-Senter #1,
SE SW Section 24, T31N, R13W,
San Juan County, New Mexico

Dear Mr. Porter:

Attached hereto is a copy of U.S.G.S. Form 9-331a, along with a chronological summary of operations defining the recompletion of subject Mesa Verde gas well as a dual Dakota-Mesa Verde gas producer. Also attached is a scematic diagram defining the dual completion hookup.

We request your administrative approval of this dual completion. The well is now shut in for the initial seven-day pressure buildup determination and for subsequent packer leakage test. The proper forms C-104 and C-110 have been submitted.

There are no offset operators of interest in this dual completion situation since offset acreage is either controlled by this corporation or the Southern Union Gas Company who is a 50% working interest participant in this well.

Very truly yours,

CONSOLIDATED OIL & GAS, INC.

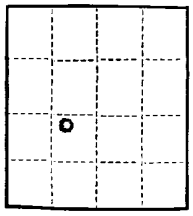
J. B. Ladd, Vice President

JBL:mch

cc -Mr. Emery C. Arnold, Oil & Gas Commission
1000 Rio Brazos, Aztec, New Mexico
cc -Mr. A. M. Wiederkehr, Southern Union Gas Company
Burt Building, Dallas, Texas
cc -Mr. P. T. McGrath, U. S. G. S. Farmington, N. M.

Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 078464
Unit N

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
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NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		Report on Deepening	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 24, 1959

Government-Senter

Well No. 1 is located 790 ft. from {N/S} line and 1690 ft. from {E/W} line of sec. 24

SE SW Section 24, (¼ Sec. and Sec. No.) 31N (Twp.) 13 W (Range) N. M. P. M. (Meridian)

Blanco (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 5817 ft. D. F. B. or 5805' GL

RECEIVED
SEP 25 1959
OIL CON. COM.
DIST. 3

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

(1) Killed Mesa Verde and pulled Mesa Verde tubing.
(2) Drilled out 7" cement & bridge plug.
(3) Deepened 15 ft. to 6736 ft., with gas--indicated Dakota water entry from 6776 ft.
(4) Set 4 1/2" liner from 4560'-6763'(21.37' of 11.6# and 66' of 9.5#)cemented with 140 sacks with 6% gel--top by temperature survey-5100'. Squeezed thru holes @ 6528' W 35 sacks.
(5) Perforated W/ jets: 6612-37'(50 holes), 6641-47'(12 holes), 6655'-61'(24 holes) 6670-86'(64 holes), 6694-6712'(36 holes).
(6) Sand-water fraced: 200 gals 15% HCl spearhead; 36,000#(60-80 mesh) sand; 66,000 gallons water; 80 balls; 32 BPM; 2700 psig. (see reverse side)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company CONSOLIDATED OIL & GAS, INC.

Address Rm. 312, 1740 Broadway

Denver, Colorado

By J. B. Ladd

Title Vice President

GPO 862040

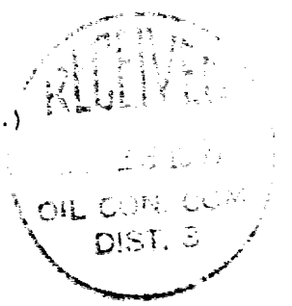
Details of work(continued)

(7) Brought well in by blowing down with supply gas. Cleaned up for 20 hours by natural flow.
(8) Effected dual completion as per attached schematic diagram dated 9-23-59
(9) See attached recompletion summary dated 9-24-59.

RECOMPLETION REPORT
CONSOLIDATED OIL & GAS, INC.
#1 - 24 GOVERNMENT - SENTER
(MESA VERDE - DAKOTA DUAL)
September 24, 1959

Basic Data:

Location:	790' North of South line 1690' East of West line Sec. 24-T31N-R13W San Juan County, New Mexico
Elevation:	5805' ground level 5817' Kelly Bushing
Rigging Up:	August 30, 1959
Released Rig:	September 23, 1959
Total Depth Before Recompletion:	6771' (6775' initial dlr.)
Total Depth Drilled:	6786'
Plug Back Total Depth:	6747'



Casing Program:

Original Mesa Verde Completion:

Surface: 10 3/4"-32.75#-H-40
Set @ 214' and cemented to surface.

Production: 7"-20#-J-55 set at 4994' and cemented with 150 sacks with 6% gel. Temp. survey cement top @ 4310'.

New Dakota Completion:

Production: 4 1/2"-11.6# and 9.5#-J-55 liner
4560' - 6763' with 140 sacks with 6% gel.

(Block squeezed with 35 sacks) Temperature survey after primary job indicated top @ 6100'.

Tubing: 2 3/8" EUE. (See diagram dated 9/23/59 for detail)

Logging Data: Welex Correlation Gamma Ray.

Producing Perforations: (Note: Depths refer to Welex RA Log dated 11/27/57)

6612' - 37' - 25 ft. - 2/ft.)	
6641' - 47' - 6 ft. - 2/ft.)	Welex
6655' - 61' - 6 ft. - 4/ft.)	Swing
6670' - 86' - 16 ft. - 4/ft.)	Hornet
6694' - 6712' - 18 ft. - 2/ft.)	

Fracture Treatment: Dakota Formation - 200 gals. 15% HCl spearhead-36,000# (60-80 mesh) sand-66,000 gals. water-80 balls-32 BPM-2700 psig average.

Potential: Indicated 2500 MCFD after 24 hrs. while still cleaning up frac water and sand.

Mesa Verde Completion: See initial Completion Report dated December 16, 1957.

WELL: Gov't-Senter No. 1-24 Continued

9/1/59

Rigging up rotary tools -- killing well -- pumping water.

9/2/59

Nippling up gas; drilling ahead. Finished rigging up; killed well and pulled 1½" tubing.

9/3/59

Blowing hole at 2300'. Preparing to dry hole up to casing plug and drill ahead.

9/4/59

Drilling on iron at 4960'. Blew well dry to 4952' with gas. Cleaned sand and cement to 4960'. Now drilling on iron believed to be bolt previously used to break tubing disc. Preparing to run magnet to retrieve iron.

9/5/59

Drilling on bridge plug at 6105'. Ran magnet to 4960' and recovered 1 gal. miscellaneous iron. Finished drilling cement and drilled on bridge plug -- push plug to 6105'.

9-6-59

Drilling hole bridge at 6396'. Circulating with gas with fine water mist. Ran magnet three times to 6105' recovering about ½ gal. junk per trip.

9/7/59

T.D. 6781'. Tripping. Drilled several bridges and finished drilling up bridge plug. Drilled several cement bridges 6400-6600'. Drilled 100' of hard cement 6600'-6700'. Circulating with gas with fine water mist -- dusted good while drilling firm cement and while drilling new hole 6771'-6775'. Made connection and drilled slow and sticky to 6781'. Noted small stream water from 6775'. (Note original TD measured as 6775' -- found at 6771' now.)

9/8/59

T.D. 6786'. Coming out of hole in preparation for running 4½" liner. Tripped at 6781' and found drill pipe completely dry of any moisture or cuttings -- bit completely worn out. When going in found bridge at 6625' with indication of water fill up to at least 6600' -- this indicates 8-10 bbls. water entry while tripping. blew and cleaned to bottom and drilled 6781'-6786' at about 18 minutes per foot. No dust returns with continous small stream water. Concluded Dakota wet from 6775'. Condition hole for running liner. Will perforate and frac top 120' Dakota section.

Well: Gov't-Senter No. 1-24 Continued:

9/9/59

Attempting to circulate liner to bottom -- now blowing at 6659' with supply gas and getting small stream wtr.

9/10/59

P.B.T.D. 6748'. W.O.C. Ran 6767' of 4½" 11# and 9½# J-55 csg -- set @ 6763'. Cemented with 140 sacks with 6% JEL -- led with 200 gals. M.C.A. Bumped plugs @ 1000 psig at 7:30 PM. Pressure immediately broke to "0" and wtr went away on vacuum indicating either a csg hole or cement top plug failure. Found indicated cement top @ 6100' by temperature survey. Now evaluating job.

9/11/59

P.B.T.D. 6748'. Pressure tested full csg string to 3000 psig. This indicates that we pumped by the top cementing displacement. Conclude that Dakota coals thieved both cement and displacement wtr -- cement job opposite Dakota to be fraced OK.

9/12/59

P.B.T.D. 6747'. Blowing down hole to check for fluid entry after perforating with Welex Hornet Jet as follows and setting Baker C.I. bridge plug @ 6747':

6612' - 6637'	- 25'	-	2/ft.
6641' - 6647'	- 6'	-	2/ft.
6655' - 6661'	- 6'	-	4/ft.
6670' - 6686'	- 16'	-	4/ft.
6694' - 6712'	- 18'	-	2/ft.
Total	71'	-	186 holes

9/13/59

Preparing to block squeeze liner with magnesium bridge plug at 6575' and 4 bullet holes at 6528'. Will set upper squeeze packer @ 6225' and repair liner cement channel.

Blew hole down and established no wtr entry but steady unmeasurable gas flow thru production perforations. Dumped 250 gals 15% HCl and broke down with one truck @ 1200 psig, two trucks @ 1800 psig. Increased injection rate and pressure to 2500 psig when full annulus returns noted. Estimate Dakota took some fluid at 1800-2500 psig before breaking circulation -- perhaps 10-15 bbls.

Pumped rubber plug to just below top perforations at 6612'. Set bridge plug @ 6613' and tested csg to 3000 psig. Perforated for cement squeeze.

9/14/59

Drilling cement @ 6380' after liner block squeeze.

Well: Gov't-Senter No. 1-24 Continued:

9/14/59 contd.

Set squeeze packer at 6225' and pumped in 50 sacks quick-set -- went on vacuum until tool cleared ½ bbl -- stage squeezed until 37½ sacks outside and 12½ sacks inside. Built from 500 psig to 1200 psig. Held 15 minutes -- unseated packer and flushed tool -- reseated packer and found squeeze holding good. Pulled tubing and packer in preparation for drilling out after 12 hrs W.O.C. Will drill out -- test squeeze -- drill bridge plug -- clear to P.B.T.D. 6747' and proceed with frac.

9/15/59

P.B.T.D. 6747'. Blowing hole down after sand wtr frac. Drilled cmt after liner squeeze job 6380'-6528'. Pressure tested squeeze holes to 1000 psig -- held steady 30 min. Drilled bridge plug @ 6575'. Drilled hard cmt opposite top production perforations 6612'-6660' and found hole completely clear of cmt to P.B.T.D. 6747'.

Displaced 200 gals 15% HCl -- pulled tubing in preparation for frac. Reperforated with two jets per foot 6612'-6637', 6641'-6647' and four jets per foot 6655'-6661'.

Sand Water Frac Summary: 36,000# (60-80 mesh sand) -- 61,000 gals wtr plus 5000 gals flush -- 32 BPM -- 80 balls -- 2700 psig average pressure.

Broke down with two HOWCO pumpers @ 37 BPM @ 2500 psig. Injected 20,000# sand with increasing concentration from ½# to 3/4# to 1# per gal with slow pressure increase to 3200 psig @ 1# per gal -- starting to sand out. Pumped clear wtr for 5 min slowing rate to 2500 psig. Started sand @ ½# per gal slowly increasing to 3/4# per gal @ 2550 psig.

After 45,000 gals wtr and 25,000# sand injected 20 balls with no pressure increase -- injected 20 more balls after 8000 gals and 6000# sand with slight pressure increase to 2600 psig -- injected 40 balls with resulting increase to 2750 psig -- flushed with 5000 gals wtr. Pressure holding @ 1400 psig immediately after pumping stopped -- 800 psig after 30 min -- 200 psig after 2 hrs. Opened well up and flowed 2" stream of wtr for 30 min gradually dying off after 1 hr.

9/16/59

P.B.T.D. 6747'. Preparing to run production tubing and dually complete in Mesa Verde and Dakota.

The Dakota instigated natural flow after blowing back frac wtr from about 1600' KB. Allowed well to blow and clean frac wtr and frac sand all night. Impossible to estimate natural flow rate but guesstimate one million cubic feet per day now with a well of ultimate potential of 2 to 4 million cubic feet per day after clean up. Also noted free condensate and crude oil.

Well: Gov't-Senter No. 1-24 Continued:

9/16/59 contd.

Cleaned well -- pulled tubing. Now preparing to run dual completion packers -- cut off and pull 4½" csg from approximately 4900' leaving 4½" liner from that depth to T.D.

9/17/59

Set Model "D" Baker production packer @ 6460' by wire line. Attempted to cut off 4½" csg @ 4900'. Unable to pull csg from that depth. Magnetector indicates free point @ approximately 4460'. Will cut off 4½" csg @ 4560' -- set 7" Baker production packer and run tubing for completion.

9/18/59

Going in hole with tubing to recover junk basket off Baker Model "D" packer. Cut and pulled 4½" csg from 4560' KB. This leaves 4½" liner from 4560' to T.D. Will lay down drill pipe and run tubing for completion after recovery of junk basket.

9/19/59

Cleaning out sand and csg cutter junk on top of junk basket protecting Baker Model "D" packer. Unsuccessful in previous attempt to recover junk basket.

9/20/59

Going in hole with 2" Dakota completion tubing. Recovered junk basket on top of Baker Model "D" packer in 7" csg immediately above 4½" liner top @ 4555' KB.

9/21/59

Preparing to break 2" tubing disk and bring in Dakota. Ran 2" Dakota completion tubing with Baker Model "D" packer sealing elements. Ran 50 jts 1¼" tubing for Mesa Verde but had considerable trouble because of collar obstructions. Pulled 1¼" tubing but recovered only 42 jts lost in well. Installed christmas tree for completion in Dakota. Released rotary rig at 8:00 A.M. Will complete Mesa Verde with small tubing rig.

9/22/59

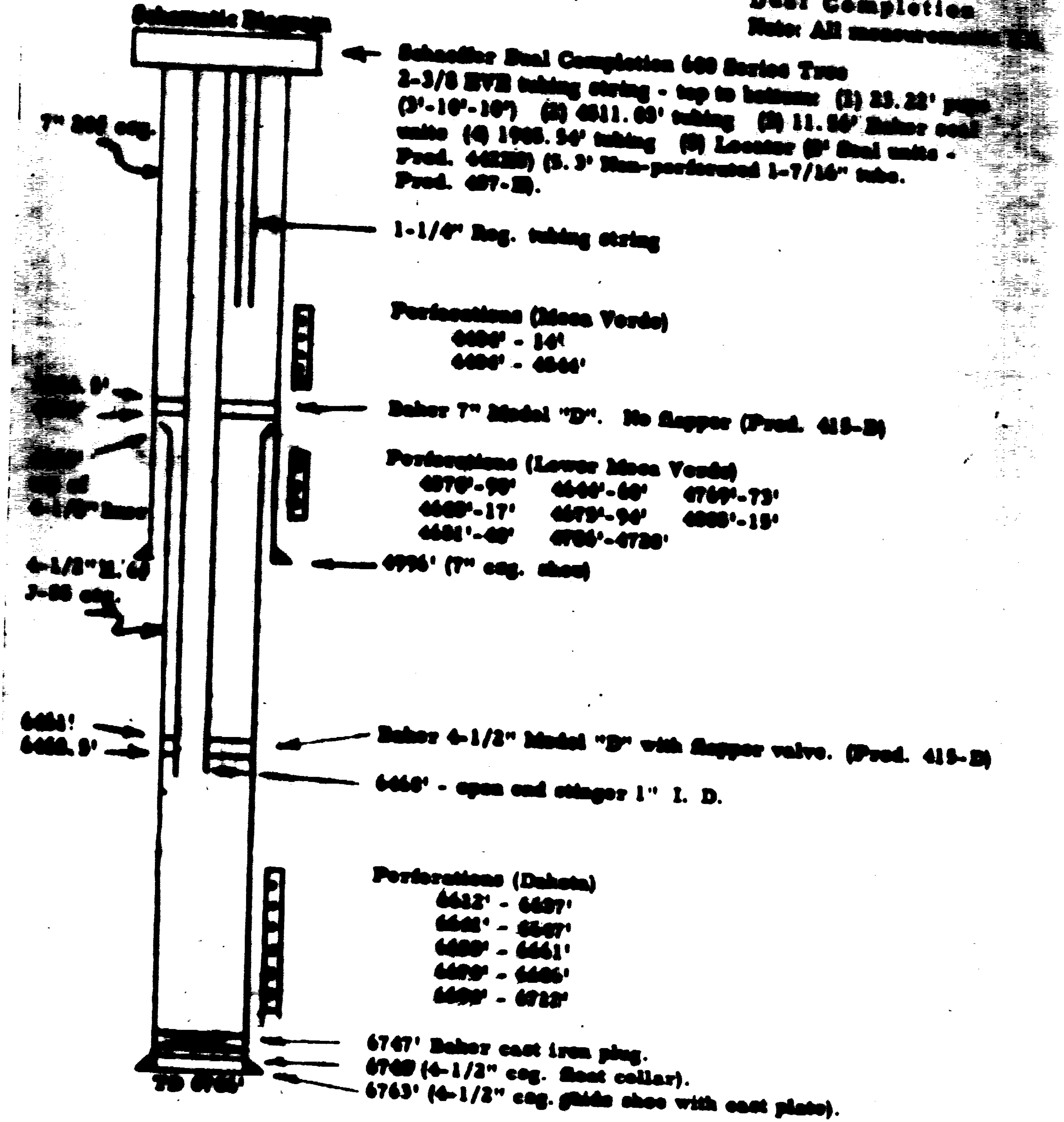
Blowing and cleaning up frac wtr -- making 2900 MCFD with rich condensate show -- also 2 BWPHr. Broke disc and swabbed in from 700' with Otis. Well came in at 3:00 PM.

9/23/59

Shut in and awaiting hookup for Dakota. Will run Mesa Verde tubing and hookup later.

CONSOLIDATED OIL & GAS, INC.
GOVERNMENT - SENTER #1-24
SAN JUAN COUNTY, NEW MEXICO

Dual Completion



Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Approval expires 12-31-60.

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(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Santa Fe
Lease No. 078464
Unit N

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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Government-Senter September 24, 19 5

Well No. 1 is located 790 ft. from {N/S} line and 1690 ft. from {E/W} line of sec. 24

SE SW Section 24, (¼ Sec. and Sec. No.) 31N (Twp.) 13 W (Range) N. M. P. M. (Meridian)

Blanco (Field) San Juan (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 5817 ft. K.B. or 5805' GL

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(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

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Company CONSOLIDATED OIL & GAS, INC.

Address Rm. 312, 1740 Broadway

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By J. B. Ladd

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Details of work(continued)

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#1 - 24 GOVERNMENT - SENTER
(MESA VERDE - DAKOTA DUAL)
September 24, 1959

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Released Rig:	September 23, 1959
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Plug Back Total Depth:	6747'

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WELL: Gov't-Senter No. 1-24 Continued

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Well: Gov't-Senter No. 1-24 Continued:

9/14/59 contd.

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9/15/59

P.B.T.D. 6747'. Blowing hole down after sand wtr frac. Drilled cmt after liner squeeze job 6380'-6528'. Pressure tested squeeze holes to 1000 psig -- held steady 30 min. Drilled bridge plug @ 6575'. Drilled hard cmt opposite top production perforations 6612'-6660' and found hole completely clear of cmt to P.B.T.D. 6747'.

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Sand Water Frac Summary: 36,000# (60-80 mesh sand) -- 61,000 gals wtr plus 5000 gals flush -- 32 BPM -- 80 balls -- 2700 psig average pressure.

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Well: Gov't-Senter No. 1-24 Continued:

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9/18/59

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9/19/59

Cleaning out sand and csg cutter junk on top of junk basket protecting Baker Model "D" packer. Unsuccessful in previous attempt to recover junk basket.

9/20/59

Going in hole with 2" Dakota completion tubing. Recovered junk basket on top of Baker Model "D" packer in 7" csg immediately above 4½" liner top @ 4555' KB.

9/21/59

Preparing to break 2" tubing disk and bring in Dakota. Ran 2" Dakota completion tubing with Baker Model "D" packer sealing elements. Ran 50 jts 1¼" tubing for Mesa Verde but had considerable trouble because of collar obstructions. Pulled 1¼" tubing but recovered only 42 jts lost in well. Installed christmas tree for completion in Dakota. Released rotary rig at 8:00 A.M. Will complete Mesa Verde with small tubing rig.

9/22/59

Blowing and cleaning up frac wtr -- making 2900 MCFD with rich condensate show -- also 2 BWPHr. Broke disc and swabbed in from 700' with Otis. Well came in at 3:00 PM.

9/23/59

Shut in and awaiting hookup for Dakota. Will run Mesa Verde tubing and hookup later.

CONSOLIDATED OIL & GAS, INC.
GOVERNMENT - SENTER #1-24
SAN JUAN COUNTY, NEW MEXICO

Dual Completion