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

Form 9-331a
(Feb. 1951)

(SUBMIT IN TRIPLICATE)

Land Office Santa Fe
Lease No. 078244
Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

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

, 19

Well No. Government Lea No. 1-30 is located 1600 ft. from {N/S} line and 1450 ft. from {E/W} line of sec. 30

SW 30 (¼ Sec. and Sec. No.) 31N (Twp.) 12W (Range) N. M. P. M. (Meridian)

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

RECEIVED
OIL CON. COM
DIST. 3

The elevation of the derrick floor above sea level is 5919 ft.

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)

Work commenced 9/24/59, Work completed 10/12/59

(1) Drilled out cement and bridge plug in 7" casing.
(2) Drilled to total depth of 6825' (Old T. D. 6778')
(3) Ran 5 1/2" 17# liner from 4493' to 6824' cemented thru shoe with 120 sx 6% gel cement squeezed top of liner with 50 sx cement. Drilled out cement and squeeze bottom of liner with 50 sx cement. PBTD 6808'.
(4) Perforated 2 jets per ft. 6723'-6751', 6755'-6760', 6784'-6807
(5) Sand water frac with 500 gal acid spearhead, 40,000#/sand and 71,000 gal. water used 70 plugging balls during frac.
(6) Swabbed well in - Well now Dakota producer. Mesa Verde cemented behind liner. (See attached sheets for detail.)

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 E-312 - 1740 Broadway, Denver, Colorado

By George E. Farmar
George E. Farmar

Title Production Manager

GPO 862040

RECOMPLETION REPORT
CONSOLIDATED OIL & GAS, INC.
GOVERNMENT LEA No. 1-30
(Dakota)
October 13, 1959

Basic Data:

Location:	T31N-R12W, N. M. P. M. NE SW (1600' FSL, 1450' FWL)
Elevation:	Ground 5907 K. B. 5919 (all measurements from K. B.)
Rigging Up:	9/24/59
Released Rig:	10/11/59
Total Depth Before Recompletion:	6778'
Total Depth After Recompletion:	6825'
Plug Back Total Depth After Recompletion:	6808'

Casing Program:

Original Completion:
(Mesa Verde - now cemented off)

Surface:	10 3/4" 32.75# H-40 set at 173' cemented with 150 sx. 2% $CaCl_2$
Production:	7" 20-23# J-55 cemented with 150 sx 6%gel. cmt.
Perforated:	4577' - 4637' 4715' - 4739' 4674' - 4681' 4800' - 4806' 4963' - 4699' 4832' - 4844' 4749' - 4779' 4859' - 4884'

New Completion: (Dakota)

Production:	5 1/2" 17# J-55 liner cemented 4493' - 6824' with 150 sx 6% gel. cement Squeezed both top and bottom with 50 sx cement
Perforated:	Lane Wells - 2 jets per foot 6723' - 6751' 6755' - 6760' 6771' - 6779'
Logging:	Lane Wells Radioactivity
Tubing:	2 7/8" EUE at 6638'
Potential:	2,000 MCF/D. during cleanup.

WELL: Gov't-Lea No. 1-30 Continued

9/24/59
Rigging up rotary tools for Dakota deepening & recompletion.

9/25/59
Preparing to blow well down and drill out 7" cement plug. Drilled rat hole & mouse hole. Picked up tubing head and and found tubing had unscrewed and fallen to bottom. Ran impression block and found @ 317'. Went in with overshot on drill pipe and retrieved fish -- 147 jts 1¼" EUE tubing.

9/26/59
Drilling on 7" csg bridge plug. Circulating with supply gas with heavy wtr mist. Cleaned approximately 30' frac sand and 10' of cement above bridge plug.

9/27/59
Blowing hole at 6686'. Return stream heavy with Mesa Verde wtr and down hole mud. Reamed and drilled continually from 5800'-- cleaning out several bridges.

9/28/59
Blowing at 4000' after tripping to clean bit and drill pipe. Drilled and cleaned to 6640' -- noted 30' sticky cement 6610'-40'. Because of lost returns and mud cake on drill pipe it was necessary to trip. Noted considerable mud cake top 3000' of drill pipe. Will probably mud up before cleaning up further.

9/29/59
Blowing hole at 6580' getting heavy flow of mud and Mesa Verde wtr spray. Preparing to mud up.

9/30/59
Mudding up. Dumped 210 bbls 9# -- 60 vis -- mud without returns. Suspect open hole thief zone.

10/1/59
Circulating and conditioning hole at 6500'. Now have good mud returns with 90 vis -- 8.8 wt -- 6-8 wtr loss mud.

10/2/59
Tripping at 6801'. Have good mud returns with 145 vis -- 8.9 wt. Hole appears to be in good condition.

WELL: Gov't-Lea No. 1-30 Continued:

10/3/59
Drld to 6816'. Pulled bit. Preparing to run new bit.

10/4/59
T.D. 6825'. Set 5½" csg liner at 6824' with top of liner at 4493'. Cmtd with 120 sx of 6% GEL cmt with ½ sx of lost circulation material mixed in first 40 sx. Circulation good throughout; questionable full returns. Bumped plug with 2000 psi. Had trouble getting floats to hold but succeeded after 15 or 20 min. Used 15' pup-joint between float shoe and float collar. Picked up out of liner approximately 30'. Started reversing immediately; had very slight show of cmt. W.O.C. at 5:00 A.M. Could pump into top of liner at friction pressure only. Pulled up 1000' -- waited until 1:00 P.M. Reran drill pipe to 300' above top of liner. Mixed 50 sx of neat cmt pumped 30 sx behind the liner over 1-hr period. Pumped in several stages with final pressure approximately 850 psi. W.O.C. at 2:00 P.M.

10/5/59
Layed down drill pipe, picking up tubing to drill out cmt from top of liner with 4-3/4" bit.

10/6/59
Picked up tubing. Drld out cmt from top of liner with 4-3/4" bit. Pressure tested to 1200 psi. Held ok. Continued picking up tubing. Drld out float collar. Found no cmt in joint between collar and shoe. Could pump out end of csg freely at 500 psi. Pulled up 1000'. Pumped and squeezed bottom of liner w/30 sx of 50-sx job leaving 20 sx in pipe. Got 1100 psi w/30 sx. Released pressure and pressured up again to 1000 psi. Left pressure on 30 min. W.O.C. at 2:30 P.M.

10/7/59
Drilled out cmt and bottom of liner to PBTD of 6820. Pulled one jt of tbg; spotted 500 gals of mud acid. Pulling tbg out of hole to perforate and frac.

10/8/59
Going in hole with 6-3/4" bit to clean 7" csg to liner top. Will then go in liner with 4-3/4" bit and clean out to PBTD 6820'. Ran RA Log but could only get to 6799', apparently because of cmt sloughings from 7" csg.

10/9/59
Preparing to sand wtr frac after cleaning out to PBTD of 6820' (drillers). Spotted 500 gals 15% mud acid -- pulled tbg and bit. Perforated w/2 jets per foot as follows: 6723-51', 6755-60', 6771-79', 6784-6807'. (Note: Lane Wells PBTD was 6808').

Well: GOV'T-LEA NO. 1-30 Continued:

10/10/59

Shut in -- moving off rotary tools.

Sand wtr fraced as follows: (Note -- Acid standing on bottom for 24 hrs.) Pump in at 1700 psig at 4500 BPM -- start ½# sand PG at 1900 psig -- increased to 3/4# sand PG at 1900 psig -- increased to 1# sand PG, still pumping at 1900 psig at 38 BPM. Dropped 30 balls w/pressure to 2000 psig. Increased sand to 1½# PG w/no pressure increase -- dropped 20 balls w/pressure to 50 psig -- dropped 20 balls w/no pressure increase. Flushed w/11,000 gals wtr w/pressure increase to 2400 psig during final flush.

Job Summary: 40,000 (40-60 mesh) sand; 71,000 gals wtr; 70 balls; 38 BPM; 2000 psig. Standing pressure 1100 psig in 1 min, 900 psig in 10 mins, 800 psig in 20 mins. Opened well up in 50 mins and flowed back 2" stream decreasing to nothing in 4 hrs. Ran wire line and found 20' sand fillup. Ran 2-7/8" EUE tbg to 6638' KB -- open ended.

10/11/59

Shut in.

Dropped bar to break tbg disc but found disc had apparently been broken while running in tbg.

10/12/59

Shut in. 1500 psig on tbg head. Swbd well in yesterday by swbg wtr from 500' to 1100' from surface in 2 hrs. Let well blow and clean up approx 8 hrs. Strong blow w/heavy wtr spray.

10/13/59

Shut in. Blew well approx 6 hrs yesterday. Noted heavy wtr fog w/gas too small to burn w/green oil mist. No indication of sand or balls. After 6 hrs had fairly stable flow at 50 psig flowing tbg pressure and 350 psig csg pressure w/Pitot Tube flow indication of 3870 MCFD. Estimate equivalent dry gas flow rate of 2000 MCFD.