Form 9-331a
(Feb. 1951)

Budget Bureau No. 42-R358.4.
Form Approved.

Land Office Santa Fe

Lease No. 078487-A

Unit E/2 Sec. 31

(SUBMIT IN TRIPLICATE)

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 Hydraulic Fracture Treatment X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR XX
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	

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

February 8, 1963

Prichard
Well No. 4 is located 1440 ft. from (N) (S) line and 1190 ft. from (E) (W) line of sec. 31

NE/4 Sec. 31 — T-29-N (Twp.) — R-8-W (Range) — NMPM (Meridian)

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

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FARMINGTON, NEW MEXICO

The elevation of the derrick floor above sea level is 6001 ft. G.L.

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)

A 7" cement retainer was set at 4000' and 250 sx. cmt. were squeezed out below, obtaining a 3500# squeeze. Drilled retainer & cement to 4080'. Sidetracked hole w/knuckle joint & drilled w/gas to 7225 TD. Ran logs & ran 210 joints of 4-1/2" casing & cut off casing at 5063'. Left 1769' of casing in hole. Mud up was unsuccessful. Pumped 170 sx. cmt. thru tubing. Ran two directional surveys: 4-3/4°, N-55°-E @ 4100 & 1/2°, S-1°-E @ 4080'. Set a 7" cement retainer @ 4040. Squeezed out 75 sx. cement to 3600 psi. Drilled w/gas to 4078 & set whipstock to drill S-45°-W to TD 7021'. Ran 4-1/2" casing & stuck same at 6680'. Squeezed out bottom 80 sx. of cement. Cement top @ 6615 (Temp. Survey) Perf. 4 holes @ 4809-10. Pumped 291 sx. thru squeeze packer. Drilled out cement & set squeeze pkr. at 4679'. Broke perfs. down & cemented w/155 sx. Reset pkr. at 4560 & obtained a 3000 psi squeeze w/100 sx. Drilled cement & pressure tested casing to 2000 psi for 15 min. & held OK. Perf. 4 holes at 4590-91. Set pkr. at 4419. Squeezed out 100 sx. & held 3000 psi for 10

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced. (Cont't. On Back)

FEB 25 1963
OIL CON. COM.
DIST. 3

Company Delhi-Taylor Oil Corporation

Address P.O. Box 1198

Farmington, New Mexico

By Original signed by A. R. Gibson
A. R. Gibson

Title District Superintendent

GPO 914974

minutes, OK. Perf. 4 holes at 4[illegible]. Brk. at 1014 & got gas returns to surface. Set a permanent cement retainer at 4[illegible] & squeezed 10 sx. Drld. out cement & retainer and press. tested csg. to [illegible] psi & drilled [illegible]. Set squeeze pkr. at 4012. Squeezed cmt 100 sx and circulated [illegible] sx. to surface. Drilled out cmt. & press. to 2000 psi, but did not hold. Set pkr. at 4[illegible] & squeezed out 50 sx. to 2500 psi. Drld. out cmt. & tested csg. to 2500 psi. Held OK. Drld. out bottom of csg. w/mud to 7027'. Ran a 2-1/2" EUE tbg. liner from 6377-7[illegible] cmt. same w/150 sx. of cmt. Drld. out of liner to 7019. Perf. 7012-1[illegible] w/1 jets/ft. Spot 28-1/2 gal. of acid across perfs. Frac w/35,000 gal. of 1% CaCl$_2$ wtr. containing 3[illegible]#/1000 gal. of WG-4 & 2#/1000 gal. of FR-2 & 5#/1000 gal. CW-1 and 25,000# of 10-[illegible] sand & 12,000# of 20-40 sand. Zone tested wet. Set a CI BP at 6997.

Stage # 2: Perf. one hole at each of the following depths: 6906-1/2, 6912, 6930, 6943, 6949, 6958, 6978, 6992. Frac w/53,330 gal. of 1% HCL wtr. containing 3[illegible]#/1000 gal. of WG-4 & 3[illegible]#/1000 gal. of FR-2 & 40,000# of 20-40 mesh sand. Zone tested wet. Set an aluminum BP at 6946. Set a CI BP at 6900 (PBTD).

Stage #3 : Perf. one hole at each depth [illegible] 6791, 6795, 6798, 6872, 6874, 6876, 6881, 6883. Frac w/51,250 gal. of 1% HCL wtr. & 87,500# of 20-40 sand. Well tested on 1/21/63 as follows on a 3/4" Thornhill-[illegible] flow bean to atmosphere: Pc = 1981 psig; Pt = 89 psig; Pw = 182 psig (Calculated); Q = 1018 MCF/D; AOF = 1024 MCF/D. Set a Baker Model "D" pkr. w/an expendable plug at 6337.40 & tested to 3600 psi.

Mesaverde Completion:

Steps # 1: Perf. 1 hole ea. @ 4775, 4741, 4731, 4698, 4583, 4757, 4743, 4727, 4689, 4568, 4753, 4725, 4708, 4669 & 4552. Frac. w/[illegible],500 gals. water, 60,000# 20-40 sand. Magnesium Baker plug set at 4553-1/2 - 61.

Stage # 2: Perf. 1 hole ea. @ 4285, 4372, 4422, 4506, 4528, 4543, 4482, 4488, 4515, 4534, 4366, 4401, 4430, 4520 & 4540. Frac w/4[illegible],000 gals. water & 65,960# 20-40 sand. Magnesium Baker plug set at 4275'.

Stage # 3: Perf. 1 hole ea. @ 4127, 4149, [illegible], 4196, 4188, 4184, 4148, 4189, 4215, 4236, 4138, 4152, 4205, 4128, 4227. Frac. w/[illegible],000 gals. water & 79,000# 20-40 sand.

Cleaned out to pkr. at 6337'. Ran 208 joints of 2-3/8" EUE tubing & landed tubing at 6337 in packer. Well tested on 12-11-62 (SI) into pipeline according to NMOCC annual deliverability test as follows: Avg. Q = 1[illegible] MCF/D, D = 1684 MCF/D, Pc = 784 psia.