Pohlmann and Associates

FARMINGTON, NEW MEXICO AND HOUSTON, TEXAS

200 PETROLEUM PLAZA BLDG.
FARMINGTON, NEW MEXICO 87401
PHONE (505) 325-4608

July 3, 1979

TO: Oil Conservation Commission
State of New Mexico
P.O. Box 2088
Santa Fe, NM 87501

FROM: Pohlmann & Associates for:
John Staver
Box 950
Virginia, Minn. 55792

SUBJECT: Requested Additional Information to Allow John Staver to Dispose of Water in the Dakota-Table Mesa Field

The hearing concerning this matter took place on June 27th.

The main item that concerned the Commission(and us) was if the Dakota horizon in abandoned well No. 3-18 (1980 FNL, 1980 FWL - 3-27N-17W) was properly isolated. The original record we obtained and furnished was lacking.

In order to prove the Dakota is isolated, we reverted to the original Continental record. Please see attached diagram and copy of U.S.G.S. records. Note the Dakota is not only behind pipe, it is also cemented through a stage collar located 160' below the base of the zone of interest.

Other questions concerned production rates. The daily production rates follow:

Well NO.	BOPD	BWPD
5	8	91
20	7	81

Monthly estimate of total volume of water to be disposed is 4700 barrels.

Disposal well No. 22 has a defective packer. That packer is being replaced today. The annular space between the tubing and packer will be filled with water treated with a corrosion inhibitor. Disposal well No. 23 has checked out O.K. and the annular space in this well will also be filled with treated water. Both wells will have the casing valves open to atmosphere so annulus fluid can be checked.

We have also cleaned up the lease, repaired flow lines, repacked the triplex pump, repaired leaking well heads and most important of all - prepared and turned in all due notices to the U.S.G.S. and New Mexico Oil Conservation Commission.

Hank Pohlmann
Hank Pohlmann

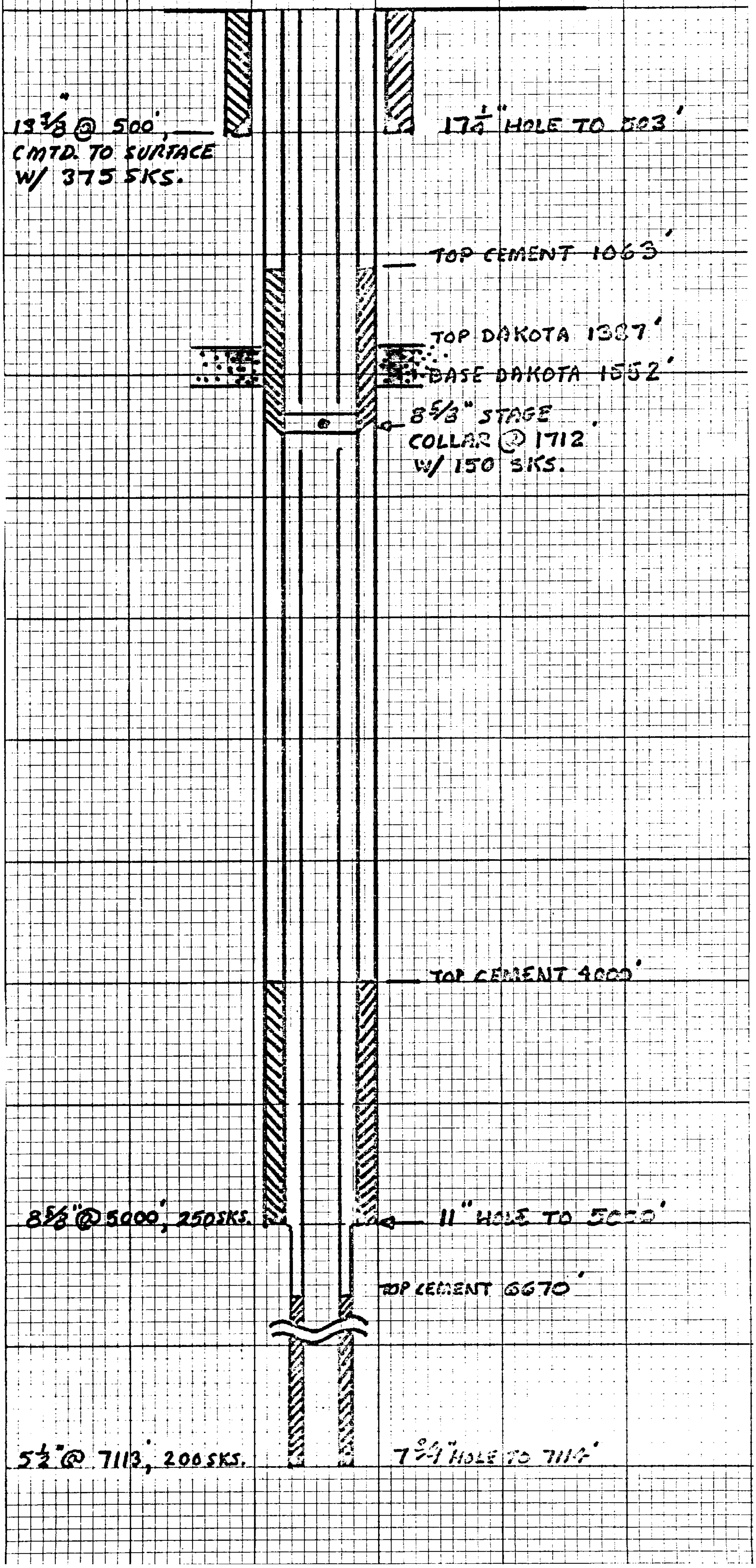
HP:wb
Enclosures:

cc: John Staver
Box 950
Virginia, Minn. 55792

Al Kendrick
N.M. Oil Conservation Commission
1000 Rio Brazos Rd.
Aztec, NM 87410

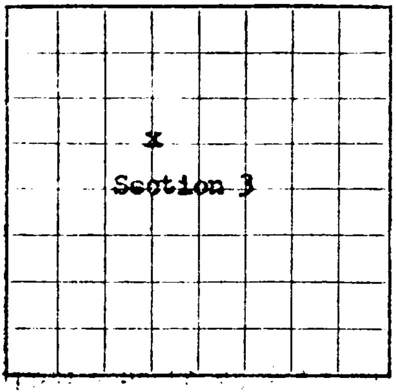
CONTINENTAL 3-18

1980 FNL 1980 FWL
3-27N-17W
ORIGINAL COMPLETION 5-10-61



Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.



LOCATE WELL CORRECTLY

Navajo Tribe
Lease No. 1-89-IND-57

U. S. Land Office
Serial Number
Lease or Permit to Prospect

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Continental Oil Company Address P. O. Box 3312, Durango, Colorado

Lessor or Tract Navajo Field Table Mesa State New Mexico

Well No. 18 Sec. 3 T. 27N R. 17W Meridian NMPM County San Juan

Location 1980 ft. N/S of N Line and 1980 ft. E/W of W Line of Sec. 3 Elevation 5360' (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date November 29, 1961 Title District Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling March 27, 1961 Finished drilling May 10, 1961

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 1391 to 1440 No. 4, from to
No. 2, from 6975 to 7011 (G) No. 5, from to
No. 3, from 7082 to 7114 (G) No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 4420 to 4800 No. 3, from to
No. 2, from to No. 4, from to

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
13 3/8"	48#	8 RD	H-40	504'					Surface
8 5/8"	32#	8 RD	J-55	5012'	Baker				Intermediate
5 1/2"	14#	8 RD	J-55	2971'	Baker				Production
5 1/2"	15.5#	8 RD	J-55	1618'					
5 1/2"	17#	8 RD	J-55	2495'			7097	7113	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8"	503' RB	375	Displacement		
8 5/8"	5000' RB	400	Displacement		
5 1/2"	7113' RB	200	Displacement		

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded 3-27-61. Drilled and reamed 17 1/4" hole to 503'. Ran 16 jts. of 13 3/8", 48# surface casing and set at 503'. Cemented to surface with 375 sacks regular. Drilled 11" hole with mud to 5000'. Ran IES log. Ran 121 jts. 8 5/8", 32#, J-55 intermediate casing, landed at 5000'. Stage collar at 1712'. Cemented through shoe with 250 sacks regular. Cemented through stage collar with 150 sacks regular. Drilled out collar. Dried up hole to drill with air. Drilled 7 3/4" hole with air from 5000' to 6909'. Core #1 from 6909' to 6917'. Mudded up, cut core #2 from 6917' to 6952'. Lost circulation at 6952'. DST #1, 6922-6975', recovered 5' drilling mud. Core #3, 6975' to 7009'. Lost circulation at 6989'. Ran radiation tool, found lost circulation zone 6172-6500' in Hermosa. Spotted 100 sacks neat with 100 cu. ft. pozmix followed with 100 sacks neat at 6530'. Drilled cement plug to 6474', lost circulation. Spotted 150 sacks cement. Found cement at 6320'. Spotted 120 sacks regular cement. Drilled cement from 5900' to 6470'. No lost circulation. Drilled cement from 6470' to 6530', circulated to bottom. Drilled hole from 7009' to 7011'. DST #2, 6975-7011'. Gas to surface in 14 mins., recovered 210' HGCM. Bucket of mud settled out to 70% free oil. Core #4, 7011' to 7027'. Drilled 7027'-7029'. Core #5, 7029' to 7069'. Core #6, 7069' to [illegible]'. Drilling break at 7107'. Mud wgt. 10.6#/gal. Well started cutting gas. Closed rams and opened 3" kill line. Well started blowing mud out of hole. Closed 3" kill line. Rams blew out on blowout preventer from increase in pressure. Tried to kill well with mud but due to lost circulation, mud supply became exhausted before well could be brought under control. Well blowing out of control. Gas cut hole in drill pipe and drill pipe parted. Closed blind rams. Well killed 5-13-61 by pumping in 12.6#/gal. mud. Set bridge in 8 5/8" casing at 4900' and shut off well. Installed new blowout preventer and manifold. Drilled out plug and cleaned out to T.D. of 7113'. Ran 227 jts. 5 1/2" casing from surface to 7113'. Cemented with 200 sacks regular. Cement top found at [illegible]. Drilled out shoe plus 1' hole to T.D. of 7114'. Perforated 5 1/2" casing from 7097' to 7113' with 4 jets per foot. Released rig 5-25-61. Ran BHP survey. BHP at 7000', 3731 psig. Average gas gradient 0.10. Set production test unit. Tested for four days. Calculated absolute open flow potential, 21,500 MCFGPD and 333 barrels 71.6° API gravity condensate. Helium content of gas measured 5.4%. Well shut-in pending gas sales contract.

PLUGS AND ADAPTERS

Heaving plug—Material .... Length .... Depth set ....

Adapters—Material .... Size ....

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 7114 feet, and from .... feet to .... feet

Cable tools were used from .... feet to .... feet, and from .... feet to .... feet

DATES

November 29, 1961 Put to Testing ~~producing~~ May 29, 1961

The test ~~production~~ for the first 24 hours was 333 barrels of condensate ~~fluid~~ of which ......% was oil; ......% emulsion; ......% water; and ......% sediment. Gravity, °API ~~°Bé~~. 71.6

If gas well, cu. ft. per 24 hours 21,500 (CAOF) Gallons gasoline per 1,000 cu. ft. of gas ....

Rock pressure, lbs. per sq. in. 3731

EMPLOYEES

............, Driller Contractor: Aspen Drilling Company, Driller

............, Driller ...., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1280	1387	107	Greenhorn
1387	1552	165	Dakota
1552	2615	1063	Morrison
2615	2637	22	Todilto
2637	2733	96	Entrada
2733	2785	52	Carmel
2785	3248	463	Navajo
3248	3886	638	Chinle
3886	4034	148	Shinarump
4034	4121	87	Moenkopi
4121	4715	594	De Chelly
4715	6035	1320	Organ Rock
6035	6641	606	Hermosa
6641	6672	31	Paradox
6672	7114	442	Paradox Limestone

(OVER)

USGS(3) NMOCC(2) REW HOLLY HDH

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.
[illegible]

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
[illegible]

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
[illegible]

9. WELL NO.
[illegible]

10. FIELD AND POOL, OR WILDCAT
[illegible]

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
[illegible]

12. COUNTY OR PARISH 13. STATE
[illegible]

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR
John F. Staver

3. ADDRESS OF OPERATOR
Box 51, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

1090' FNL [illegible] FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
[illegible]

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	☐	ABANDON*	X	SHOOTING OR ACIDIZING	ABANDONMENT*
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)	
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Propose to plug & abandon this well [illegible]

519 1391 1555
Tops are as follows: [illegible] - [illegible] - [illegible]

2640 4210 6035 6641
[illegible] - [illegible] - [illegible] - [illegible] -

6672
[illegible] - T.D. [illegible] - [illegible]

7097
[illegible] as follows: [illegible]

8 5/8" 5817
[illegible] with [illegible] - [illegible]

stage collar [illegible]

7113
[illegible] plugging [illegible] T.D. [illegible] -

[illegible]

[illegible] with [illegible]

[illegible]

[illegible]

18. I hereby certify that the foregoing is true and correct

SIGNED TITLE [illegible] DATE [illegible]

(This space for Federal or State office use)

APPROVED BY TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side