FILE NOTATIONS

Entered in N I D File	✓	Checked by Chief	RLS
Entered On S R Sheet		Copy N I D to Field Office	✓
Location Map Pinned		Approval Letter	
Card Indexed		Disapproval Letter	
I W R for State or Fee Land	✓		

COMPLETION DATA:

Date Well Completed 12-1-60 Location Inspected

OW ____ WW ____ TA ____ Bond released

GW ____ OS ____ PA ✓ State of Fee Land

LOGS FILED

Driller's Log 1-5-61

Electric Logs (No.) 3

E ____ I ____ E-1 ✓ GR ____ GR-N ✓ Micro ✓

Lat ____ Mi-L ____ Sonic ____ Others ____

ULC 8-26-91

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Window Rock

Allottee

Lease No. 14-20-603-213

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	XXX	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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
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)

November 2, 19 60

Navajo D-1-X

Well No. / is located 618 ft. from {N/S} line and 760 ft. from {E/W} line of sec. 28

NW/4 NW/4 Sec. 28 (¼ Sec. and Sec. No.) 42S (Twp.) 26E (Range) S.L.M. (Meridian)

Wildcat (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the ~~derrick floor~~ ungraded ground above sea level is 4796.6 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)

1. To set approximately 1400' of 8-5/8" surface pipe with approximately 1500 sacks of cement.

2. In the event of water flow, an intermediate string will be set.

3. To test the top of the Paradox Salt formation at approximately 6200'.

4. In the event of commercial production, 5½" OD cag will be set through the production zone and cemented with approximately 125 sacks cement.

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

Company DAVIS OIL COMPANY

Address 1020 Midland Savings Bldg.

Denver 2, Colorado

By Paul Messinger
Paul Messinger

Title Exploration Manager

U. S. GOVERNMENT PRINTING OFFICE 16—8437b-8

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Window Rock

Allottee

Lease No. 14-20-603-213

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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	XX
NOTICE OF INTENTION TO ABANDON WELL			

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

November 2, 19 60

Navajo D-1-X

Well No. 1 is located ~~518~~ 570 ft. from ~~[illegible]~~ [N] line and ~~760~~ 810 ft. from [E] line of sec. 28

NW/4 NW/4 Sec. 28 (¼ Sec. and Sec. No.) T42S (Twp.) 26E (Range) S.L.M. (Meridian)

Wildcat (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the ~~derrick floor~~ ungraded ground above sea level is 4796.6 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)

10-26-60 P.M.-spudded. Set 1478' of 8-5/8" csg, cemented with 1500 sacks regular cement. Plugged down 6:00 A.M. on 10-30-60.

11-2-60 A.M.-Drilling at 2280'.

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

Company DAVIS OIL COMPANY

Address 1020 Midland Savings Bldg.

Denver 2, Colorado

By Paul Massinger
Paul Massinger

Title Exploration Manager

November 4, 1960

Davis Oil Company
1020 Midland Savings Bldg.
Denver 2, Colorado

Attention: Paul Messinger, Exploration Manager

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo D-1-X, which is to be located 618 feet from the north line and 760 feet from the west line of Section 28, Township 42 South, Range 26 East, SLM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,
EXECUTIVE SECRETARY

CBF:avg
cc: P. T. McGrath, Dist. Eng.
U. S. Geological Survey

H. L. Coonts - OGCC, Moab

Form 9-331 b
(April 1952)

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Window Rock

Allottee

Lease No. 14-20-603-213

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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
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	XXX		

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

December 1, 19 60

Well No. Navajo / D-1-X is located 990 ft. from {N} line and 810 ft. from {W} line of sec. 28

NW/4 Sec. 28 (¼ Sec. and Sec. No.) 42S (Twp.) 26E (Range) NMPM (Meridian)

Wildcat (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is 4836 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)

The Navajo D-1-X is to be plugged as follows in accordance with verbal instructions from Mr. Dick Krahl, Farmington, New Mexico:

1.	5972' T.D	up to 5825'	147'	fill hole with heavy mud.
2.	5825'	up to 5750'	75'	23½ sxs cement across Ismay
3.	5750'	up to 4875'	875'	fill hole with heavy mud.
4.	4875'	up to 4775'	100'	31 1/3 sxs cement across Hermosa
5.	4775'	up to 2950'	1825'	fill hole with heavy mud.
6.	2950'	up to 2850'	100'	31 1/3 sxs cement across DeChelly
7.	2850'	up to 1500'	1350'	fill hole with heavy mud.
8.	1500'	up to 1450'	50'	20 sxs cement base surf. csg.
9.	1450'	up to 15'	1435'	fill surf. csg. w/heavy mud.
10.	15'	up to 0'	15'	5 sxs cement in top of surf. csg. w/marker

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

Location is to be cleaned up and restored to good condition.

Company Davis Oil Company

Address 1020 Midland Savings Bldg.

Denver, Colorado

By Paul R. Bunkler

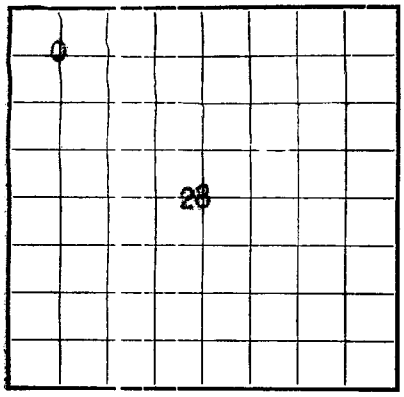
Title Consulting Geologist.

BEST COPY AVAILABLE

Form 9-330

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

U. S. LAND OFFICE Window Rock
SERIAL NUMBER 14-20-603-213
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Davis Oil Company Address 1020 National Savings Bldg., Denver

Lessor or Tract Navajo 14-4 Field Aneth State Utah

Well No. 14-4 Sec. 28 T. 42S R. 23E Meridian County San Juan

Location 593 ft. {N./S.} of N. Line and 810 ft. {E./W.} of W. Line of Sec. 28 Elevation 4896'
(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 Paul A. Ambler

Date December 5, 1960 Title Consulting Geologist

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

Commenced drilling Oct. 9, 1960 Finished drilling Dec. 1, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from none to No. 4, from to

No. 2, from to No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from 1000 to 1050 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

HISTORY OF OIL OR GAS WELL

Please state in detail the dates of redrilling, together with the reason for the work and the results. If there were any changes made in the casing, state fully the nature of the change, and if the well has been abandoned, give the date and reason. If a fish was left in the well, give its size and the depth at which it was left, or if lost in the hole, state kind of material, and position, and depth to which it was left. If a fish or obstruction was left in the hole, state the depth to which it was left, and the reason why it was not removed. If a directional survey was made, state the date and the name of the company making the survey. If a drill stem test was made, state the date, the depth, and the results of the test. If a core was taken, state the depth at which it was taken, and the results of the examination of the core. If a drill stem test was made, state the date, the depth, and the results of the test. If a core was taken, state the depth at which it was taken, and the results of the examination of the core. If a drill stem test was made, state the date, the depth, and the results of the test. If a core was taken, state the depth at which it was taken, and the results of the examination of the core.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	1135	750 sxs			

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material Size

SHOOTING RECORD

FOLD | MARK

8 5/8	1436	750 sxs				

FOLD | MARK

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 5972' feet, and from ..... feet to ..... feet

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

DATES

....., 19..... Put to producing ....., 19.....

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

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

Tiger Drlg. Co., Driller ....., Driller

1810 First Nat'l Bank Bldg., Driller ....., Driller

Denver, Colorado.

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	1440'	1440'	Morrison, Bluff, Summerville, Entrada, Carmel, Navajo, Kayenta, Wingate (All behind the 8 5/8" surface pipe)
1440'	2520'	1080'	Chinle
2520'	2700'	180'	Shinarump
2700'	2870'	170'	Moenkopi
2870'	3115'	245'	DeChelly
3115'	4790'	1675'	Cutler
4790'	5684'	894'	Hermosa
5684'	5824'	140'	Ismay (Upper & Lower)
5824'	5892'	68'	Paradox black shale
5892'	5972' T. D.	80'	Desert Creek

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD—Continued

(OVER)

6—48094-4

JAN 1961

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
UNITED STATES
GEOLOGICAL SURVEY

LEASE OR PERMIT TO PROSPECT
SERIAL NUMBER
U. S. LAND OFFICE

LOCATE WELL CORRECTLY

Company _____ Address _____
Lessor or Tract _____ Field _____ State _____
Well No. _____ Sec. _____ T. _____ R. _____ Meridian _____ County _____
Location _____ ft. {N/S} of _____ line and _____ ft. {E/W} of _____ line of _____ (Give all the lines in section)

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 _____ Title _____

For complete DST results on all 5 DST's see attached sheets.

CASING RECORD

Size	Weight per foot	Number of sacks of cement	Method used	Mud fluid used	Amount of mud used

PLUGS AND ADAPTERS

Heaving plug—Material	Length	Depth set

SHOOTING RECORD

Size shell	Quantity	Date	Depth shot	Depth cleaned out

WADDING AND CEMENTING RECORD

16—43004-2 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.

The Navajo 5-1 was spudded on Oct. 12, 1960. 12¼" surface hole was drilled to 300'. The 9 5/8" casing was cemented to 11" hole and 13 3/8" surf. csg. was set at 300' with 250 sxs. 12¼" hole was then drilled to 1420' and 8 5/8" intermediate was set at 1403'. Plug down at 7:45 A.M. Oct. 17. 7 7/8" hole was then drilled to 1800' and on Oct. 19 the 8 5/8" csg. pipe parted. After fishing and [illegible] until Oct. 25 the rig was skidded 35' to drill a new hole.

The Navajo 5-1-X was spudded on [illegible] hole was drilled to 1458' by Oct. 29. On Oct. 30 8 5/8" csg. was set at 1457' [illegible] down at 6:30 p.m. Drilling of the 7 7/8" hole was continuous from 1458' on Oct. 31 to 5778' on Nov. 25. Core # 1 5778 to 5819 was cut on Nov 25. DST # 1 was then run from 5779 to 5819. On Nov 26 DST # 2 was run from 5786 to 5805. On Nov 27 drilling was resumed from 5819 to 5927. Core # 2 was then cut from 5927 to 5972 [illegible]. DST # 3 was then run from 5806 to 5811. On Nov. 30 DST # 4 was run from 5698 to 5788. [illegible] Dec. 1 DST # 5 was run from 5775 to 5789. The hole was then plugged and abandoned. The logging program consisted of Schlumberger [illegible]; and microlog. Drilling resumed on Nov 29 after Core # 2.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

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

IMPORTANT WATER SANDS

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

PAUL R. BUEHLER
PETROLEUM GEOLOGIST
2775 CRABAPPLE RD.
GOLDEN, COLORADO
PHONE FR 9-4[illegible]

December 3, 1960

Davis Oil Co.
1020 Midland Savings Bldg.
Denver, Colorado

Gentlemen:

Enclosed herewith are a descriptive sample log, core descriptions, drill stem test results, bit record, cronological log, mud record, hole deviation record, coring time and plugging procedure from your Navajo D-1-X, San Juan County, Utah. The formations penetrated and other data are as follows:

DAVIS OIL CO., & TIGER DRLG. CO., NAVAJO D-1-X
NW NW Sec. 28; T42S; R26E.
San Juan Co., Utah

Elev : 4796' grd; 4807' K.B.
Comm : (D-1 Oct 9), D-1-X Oct 26, 1960
Comp : Dec. 1, 1960
Contr: Tiger Drlg. Co., Rig #1
Csg : 8 5/8" @ 1478' w/750 sxs
Mud : Chem Gel
Hole Size: 7 7/8"

		Schlum	Smpls
Top	Chinle	1440'	
"	Shinarump	2520'	
"	Moenkopi	2700'	
"	DeChelly	2870'	2870'
"	Organ Rock	3115'	3103'
"	Hermosa	4790'	4785'
"	Ismay (A_1)	5684'	5692'
"	Ismay (A_2)	5767'	5770'
"	Paradox Sh (B)	5824'	5825'
"	Desert Creek (C)	5892'	5893'
T.D.		5972'	5972'

The Navajo D-1-X was drilled or cored from the Morrison formation at the surface to the black shale below the Desert Creek Zone at total depth without finding commercial shows of oil or gas, although interesting and significant porosity and shows were encountered in the lower Ismay (A_2) zone. This zone will be discussed in later paragraphs.

Driller's measure and Schlumberger measure agree through the cored intervals and at total depth and are assumed to agree at all depths from the Hermosa top downward. Samples were of excellent quality and mud and hole conditions of excellent quality.

The first oil shows encountered were in the drilling samples caught at 5745, 5750 and 5755'. These samples contained a low percentage of limestone, fine xln, tan, very argilaceous, dirty, sucrosic but with light brown oil stain, dull yellow

fluorescence and very slight to no porosity. No significant drilling break was encountered through the zone. Subsequent Schlumberger logs (GR-N), indicated the shows to be from the depths 5731-5736' and 5744-5748'. From sample observation, the zone was not thought to merit drill stem testing and Schlumberger calculations indicated the zone to be water productive if it was not too tight to yield fluid. This zone was drill stem tested by request of one of the contributing companies and yielded 30 feet of mud. The bottom hole (shut-in) pressures were low. Results indicate the zone to be tight. (See DST #4).

The lower Ismay (A_2) was encountered at 5767' (GR-N). At 5776-5778' Drlr, a 2 foot drilling break was encountered. Samples were circulated at 5778' Drlr, and found to contain limestone, cream to tan, medium xln, very fossiliferous with pinpoint to small vug. porosity. Some of the fragments contained light brown oil stain and spotty yellow fluorescence. Since porosity and shows of oil had been encountered it was decided to core. Core No. 1 (41') was cut from 5778 to 5819'. Recovery was 40 feet of limestone rather uniform in appearance as to porosity and oil stain except for 2' at 5790' to 5792' which were hard and tight without shows and 1' at 5817 to 5818' which was hard and tight without shows. It was assumed that the bottom 1' was lost. The top 3' of core from 5778 to 5781' were bleeding saltwater and oil. No saltwater was noted in any of the core below this depth and oil odor and oil taste were good in all of the porous portion of the core below the part where saltwater was noted. Since the top 3' of core appeared to be tight, the bleeding of saltwater was not thought to be detrimental, therefore drill stem test No. 1 was run from 5779 to 5819', to cover the entire zone except for the 2 feet drilled and the top 1 foot of core.

On drill stem test No. 1 the tool was opened to purge the formation for a 5 minute period, with a strong surface blow, then the initial shut in was taken for 30 minutes with blow at the surface continuing. Gas surfaced 1 minute after the tool was reopened for the test. The test flowed mud at the end of 43 minutes open but for only a 15 minute period, to the end of 58 minutes. The test yielded a good gas blow without flow of liquid for 22 minutes to the end of 1 hour and 20 minutes open, then began to flow a mixture of oil and saltwater. This flow lasted 20 minutes to the end of 1 hour and 40 minutes open. The tool was allowed to remain open for another 1 hour and 20 minutes to make a 3 hour open period. The test continued to produce a flow of gas without liquid during the last 1 hour and 20 minutes. The tool was then shut in for a 30 minute final shut in during which time gas continued to flow to the surface. The recovery was 150' of oil, mud and water in a mixture at the top, followed by 450' of clean brown oil, followed by 4500' of saltwater. (See DST #1)

Because of the confusing results obtained from DST #1, it was decided to await the results of core analysis before attempting DST #2. After a telephone conversation with Core Lab., who picked an oil-water contact at 5813', and made recommendations for packer placement, DST #2 was run from 5786 to 5805'. Recovery was 90' of mud, 180' muddy water and 4706' of saltwater without oil. Gas surfaced in 1 3/4 hours but was so weak as to hardly burn.

Further testing of the lower Ismay (A_2) was then delayed in favor of drilling to the Desert Creek Zone. Core #2 was then cut from 5927 to 5972' in the Desert Creek Zone and into the shale below without recovering porosity. (See Core #2). Schlumberger logs were then run. Calculations by Schlumberger, on the cored zone of the Ismay (A_2) indicated that the most favorable zone of saturation was the interval 5808 to 5817' (E.S.-Ind). DST #3 was then run from 5806 to 5814', based upon the Schlumberger calculations, and original visual observations of the core and with complete disregard for Core Lab's oil water contact being at 5813'. Recovery was 75' of oil and

gas cut mud and 3594' of oil cut saltwater (6% oil cut at the top and decreasing to zero through the 3594' interval).

DST #4, as mentioned earlier, was next run on the shows in the upper Ismay.

DST #5 was then requested by one of the companies associated with the well. This test was run for them on the interval 5775 to 5789'. Recovery was 180' muddy water and 3726' saltwater without a trace of oil or gas.

In summarizing, it is difficult if not impossible, even after the results of 4 drill stem tests, a 41' core with core analysis and Schlumberger E.S. Induction, GR-N and microlog to state with certainty which portion of the zone from 5776 to 5814' microlog depth, yielded the small amount of oil which was recovered on DST #1 and DST #3. However by process of elimination of the results of 4 drill stem tests, core appearance, and with the Schlumberger logs, the evidence, strange as it seems, leads to the belief that what oil was recovered came from the interval 5806 to 5814' microlog depth.

Since no commercial shows were encountered and all possible zones had been adequately tested, the Navajo D-1-X was plugged and abandoned.

Very truly yours,

Paul R. Buehler

Paul R. Buehler,
Geologist

PRB/j

Davis Oil Co. & Tiger Drlg. Co. Navajo-D-1-A, NW NW, 26-42S-26E, San Juan Co., Utah

SAMPLE DESCRIPTIONS

Samples examined and logged by Paul R. Buchler, geologist on location. Samples begin at 1900'.

1900-1970 Sltst to v.f.g. ss, pnk, gypsiferous.
-2100 Sh to sltst, pnk to red, gypsiferous.
-2200 Sh, red, slty, gypsiferous.
-2300 Samples missing.
-2400 Sh, red-brown.
-2500 Samples missing.
-2520 Sh, red; Traces sh, grn.
-2530 Sh, red; Ltl anhydrite, Tr ls, wh, f. xln.
-2560 Sh, red; sh, lav; Ltl brn to lav. dolo.
-2650 Dolo, lav, slty, w/ltl chert & sh, lav.
-2700 Sh, red & grn & lav. Ltl ss, pnk-gry, poorly sorted.
-2800 Sh, red, grn & lav; Ss, wh, sr, poorly sorted.
-2850 Sh, red & gry-grn.
-2880 Sh as above.
-2900 Sh as above; Ltl ss, crs.g. wh, ss. qtzose.
-2940 Ss, wh, sr, w/anhy cement & sh as above.
-3000 Ss, wh, sr, crs.g. drills up free 90%.
-3050 Ss, wh, sr, crs.g. drills up free.
-3100 Ss, orange, sr, crs.g. drills up free.
-3150 Sh, red, grn & brn (poor samples).
-3200 Sh, red, slty to sltst, red.
-3600 Sh, red, slty.
-3700 Sh, red, slty.
-3730 Sh, red, slty.
-3830 Sh, red, slty, Ltl anhy, white, f. xln.
-4000 Sh, red, slty; Ltl anhy, white, f. xln.
-4200 Sh, red, slty; Ltl anhy.
-4250 Sh, red w/ltl wh ss, v. calc; Tr ls, wh, f. xln.
-4300 Ls, wh, tan-gry, v. arenaceous, 10%; Sh, gry & red, 90%.
-4370 Sh, red; Ltl ls, wh-gry, arenaceous. Ltl sh, red-brn, 5%.
-4390 Ls, wh-tan, granular & arenaceous, 60%; Ltl ss, wh, v. calc, 40%.
-4400 Sh, red w/ltl ls as above.
-4450 Ls, wh-tan, m. xln-f. xln, sli oolitic, ltl sh, red & sh, gry.
-4480 Sh, red & sh, gry.
-4490 Sh, red & gry, Ltl brn sltst; Tr ls.
-4500 Ls, wh-tan, f. xln, dns, 30%; Sh, red & gry, 70%.
-4520 Ls, wh-tan, f. xln-m. xln, 30%; Sh, red & gry, 70%.
-4530 Sltst, brn & sh, red.
-4550 Ls, wh-gry, f. xln, v. arenaceous, 90%.
-4620 Sh, red & sh, brn; Tr ls as above.
-4690 Ls, wh-tan-gry, f. xln, 30%; Sh, 70%.
-4700 Sh, red & sh, gry, 90%; Ls as above, 10%.
-4725 Sh, red; Ls, as above, 5%.
-4785 Sltst, pnk-red, calc & sh, red.
-4790 Ls, wh-crm, f-m xln, 95%; Sh, red, 5%.

TOP HERMOSA 4790' Schlum

-4800 Ls, wh-crm, f.-m. xln, 95%; Sh, red, 5%.

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-X, NW NW, 28-42S-26E, San Juan Co., Utah

4800-4810 Ls, wh-gry, f. xln-m. xln, 95%; Sh, red & gry, 5%.
-4835 Ls, wh-crm, f. xln, 100%.
-4840 Ls, wh-crm, f. xln, 75%; Sh, red & gry, 25%.
-4850 Sh, red, 70%; Ls as above, 30%.
-4855 Ls, crm-tan & brn, m. xln, 85%; Sh, red, 15%.
-4865 Poor samples.
-4875 Ls, crm-tan, with m . xln, 85%; Sh, red, 15%.
-4900 (Samples missing).
-4910 Ls, crm-wh, m. xln, 50%; Sh, red & gry, 50%.
-4915 Sh, red & sh, gry; Ls as above, 5%.
-4920 Ls, wh-crm, arenaceous, w/ltl pnk-orange chert, 40%; Sh, 60%.
-4950 Sh, red & gry. Considerable calc siltst.
-4960 Ls, wh-crm. f. xln.
-4975 Ls, wh-crm & gry, m. xln, 80%; Sh, 10%.
-4995 Ls, gry, f. xln, argillaceous, 60%; Sh, 40%.
-5030 Sh, red.
-5055 Sh, red, 90%; Ls, wh-gry, 10%.
-5060 Sh, gry-lt gry.
-5070 Sh, red.
-5100 Sh, gry-lt gry, 70%; Ls, wh-crm. m. xln, 30%.
-5130 Sh, red & gry. Ls, wh-crm, m. xln, 10%.
-5145 Sh, red.
-5150 Ls, wh-crm. m. xln, v. cherty; Chert crm-orange, 5%.
-5160 Ls as above, 50%; Sh, red & gry, 50%; Tr chert .
-5170 Sh, red & gry, 80%; Ls, wh-crm, m. xln, 20%; Tr chert.
-5190 Sh, red & gry.
-5195 Sh, gry & sh, red, 90%; Ls, wh-gry, f. xln, 10%.
-5200 Sh, red & gry.
-5220 Ls, gry, argil, m. xln; Sh, gry-gry grn, 5%.
-5235 Ls as above, 50%; Sh, gry, 50%.
-5255 Sh, red & gry, 90%; Ls, crm-tan, m. xln, 10%.
-5265 Ls, crm-tan, f. xln, 75%; Ls as above, 25%.
-5270 Sh, gry, calc, 75%; Ls as above, 25%.
-5300 Ls, wh-gry-m. xln, arenaceous, 75%; Sh, 25%.
-5302 Ls, crm-wh-tan, m. xln, 95%; Sh, gry, 5%.
-5315 Sh, gry, 90%; Ls as above, 10%.
-53 30 Sh, gry, blocky, calc.
-5350 Sh as above, 10%; Ls, crm-tan, m. xln, sandy, gran, 90%.
-5360 Ls, crm-tan, m. xln.
-5370 Sh, red & gry, 80%; Ls as above, 20%.
-5425 Sh, gry, v. calc, blocky to Ls, gry, v. a rgil.
-5440 Ls, gry-lt gry, f. xln.
-5445 Ls, gry, f. xln, 50%; Sh, gry, calc, 50%.
-5450 Ls, gry, drk gry, f. argillaceous.
-5470 Sh, gry, 75%; Ls, gry, argil, 25%; Trace fossils.
-5485 Ls, crm-wh-gry, m. xln, 75%; Sh, gry, 25%; Traces fossils.
-5490 Sh, gry, 90%; Ls as above, 10%.
-5545 Sh, gry-lt gry.
-5560 Sh, gry, 95%; Ls, crm-tan, v. arenaceous, 5%.
-5575 Ls, wh, f. xln, chalky, 80%; Sh, gry, 20%.
-5590 Ls, wh-crm, crs. xln, 80%; Sh, gry, 20%.
-5600 Sh, gry, 80%; Ls, crm-tan, m. xln, 20%.
-5610 Ls, gry, f. xln, dns, 80%; Sh, gry, 20%; Ltl carb sh.
-5615 Ls as above, 50%; Sh, gry, 50%.
-5640 Ls as above, 75%; Sh, gry, 25%.

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5640-5650 Sh, gry-lt gry, 95%; Ls as above, 5%.
-5670 Sh, gry, 80%; Ls, f. xln, tan-crm, 20%.
-5685 Sh, gry; Ltl ls as above.

TOP ISMAY (A_1) 5684' Schlum

-5700 Sh, gry-drk gry.
-5705 Ls, wh-crm, f. xln, soft chalky to m. xln, w/fair pin point inter xln. por. No show.
-5710 Ls, wh-crm. f. xln, soft, chalky. Trace of por. No show.
-5725 Ls, wh-crm, f. xln, chalky; Tr chert, white.
-5730 Ls, wh-crm-tan, m. xln to f. xln, chalky. No por.
-5735 Ls as above, 30%; Sh, gry, 70%.
-5740 Sh, gry, 80%; Ls as above, 20%.
-5745 Sh, gry, 85%; Ls as above, 10%; Ls, f. xln, tan sucrosic, w/light brn oil stain, dull yell fluor. v. slight to no por.
-5750 Sh, gry, 75%; Ls, crm-wh, m. xln, No por. 20%; Ls, f. xln, tan-brn s ucrosic w/light brn oil stain, dull yell fluor. No por, 5%.
-5755 Same.
-5760 Sh, gry, 70%; Ls, crm-tan, f. xln, 30%.

TOP ISMAY (A_2) 5767' Schlum

-5770 Sh, gry-lt gry.
-5778 Sh, gry-lt gry.
-5778 (Circ 20 min) Ls, wh-crm, f. xln, shalky. No por. No show.
-5778 (Circ 40 min) Same.
-5778 (Circ 60 min) Ls as above; Trace fluorescence. No por.
-5778 (Circ 1 hr & 20 min) Ls as above; Trace fluorescence. No por.
-5778 (Circ 1½ hr) Ls, crm-tan, m. xln, f. foss, w/pin point to small vug por. Some frags w/spotty yell fluor.

CORE #1 5778-5819' Drlr & Schlum
DST #1 5779-5819' Drlr & Schlum
DST #2 5786-5805' Drlr & Schlum

5819-5825 Sh, gry w/ltl ls, crm-wh, f. xln.
-5830 Ls, crm-wh, m. xln. No por.
-5835 Sh, blk, sooty.
-5850 Sh, blk, sooty.
-5890 Sh, blk, sooty.
-5892 (Circ 1 hr & 20 min) Sh, blk, sooty.
-5900 Sh, blk, sooty.
-5910 Sltst, gry, v. calc to ls, gry, arenaceous, granular.
-5915 Sltst as above; Tr anhy; wh, powdery.
-5920 Anhy, wh, powdery.
-5925 Ls, gry-tan, f. xln-v.f. xln, dull spotty yell fluor, light brn oil stain. No por.
-5927 Same.

CORE #2 5927-5972 T.D. Drlr & Schlum.
Ran Schlum Logs.
Ran DST #3 5806-5814' Schlum
Ran DST #4 5698-5768' Schlum
Ran DST #5 5775-5789' Schlum
Plugged and abandoned hole.

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-X, NW NW, 28-42S-26E, San Juan Co. Utah

CORE RECORD

Core No. 1, 5778-5819' Drlr Cut 41' - Recovered 40'

5778-5779	(1 ')	Ls, gry, f. xln to m. xln, tight, slight oil odor, bleeding salt water & oil, bright yell spotty fluor. Low por.
-80	(1 ')	Ls, gry, m. xln-crs xln, v. foss w/brecciated fossil hash, vuggy por, good oil odor, bright yell spotty fluor. Good por. Bleeding sli amt of water and ltl oil.
-81	(1 ')	Ls, gry, f. xln-m . xln, tight, fair oil odor, bright yell spotty fluor. Low por. Bleeding little wtr & oil.
-90	(9 ')	Ls, gry, m. xln to crs xln, w/brecciated fossil hash, vuggy por, invaded w/drlg mud due to high por, good oil odor, bright yell spotty fluor. Good por. (Can suck oil from core).
-92	(2 ')	Ls, gry, f. xln, to m . xln, tight, fair oil odor, bright yell spotty fluor. Low por.
-5815	(23')	Ls, gry, m. xln to crs xln, w/brecciated fossil hash, vuggy. Good oil odor & taste, good bright yell fluor. High por (especially high @ 5812-14) (Can suck oil from core).
-5816	(1 ')	Ls, gry, f. xln-m. xln, tight, fluor along vert fracture. Low to no por.
-5817	(1 ')	Ls, gry, m. xln, foss, v. good por, crumbled & broken core. Good oil odor. Good yell fluor. High por.
-5818	(1 ')	Ls, f. xln, gry, tight. No por. No show.
-5819	(1 ')	Lost

Core No. 2, 5927-5972' Cut 45' - Recovered 44'

5927-5928	(1 ')	Sltst, gry-brn, argil, hard, tight.
- 36	(8 ')	Sh, brn-blk, calc, dns, scatt foss. ½' vert fract w/oil odor & oil stain on fract @ 5935½-36.
-37	(1 ')	Anhy, brn, shly.
-41	(4 ')	Sh, brn-blk, calc.
-45	(4 ')	Anhy, drk brn-blk.
-48	(3 ')	Sh, drk gry-blk, calc w/anhy strks.
-57	(9 ')	Sh & anhy interbedded.
-60	(3 ')	Anhy, drk brn.
-68	(8 ')	Dolo, gry, argil, micro sucrosic w/gas odor and rare spots of pinpoint bleeding @ 5960-62', 5963-65'. Vert fract @ 5965-66.
-71	(3 ')	Sh, drk brn-blk, calc.
-72	(1 ')	Lost.

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-X, NW NW, 28-42S-26E, San Juan Co., Utah

DST RECORD

DST No. 1, 5779-5819' Drlr & Schlum.
Haliburton straight test with 40' of anchor, T.D. 5819'.

Opened tool to purge formation for 5 min. with good surface blow. Took initial shut-in for 30 minutes. Opened tool to test. Had gas to surface in 1 minute. Flowed mud in 43 min. for a 15 minute period until the end of 58 min. open. Then gassed without flow of liquid for 22 min. until end of 1 hr & 20 min open, then flowed mixture of oil and saltwater for 20 minutes to the end of 1 hour and 40 min. open. Then gassed without flow of liquid for 1 hour & 20 min. to end of test. Tool was open 3 hrs. Took 30 min final shut-in during which time had flow of gas.

Recovered 5100' of fluid.
150' oil, mud and water mixed.
450' clean, high gravity brown oil.
4500' very salty water (134,000 PPM)

IH = 3225#; ISI = 2345#; IF = 792#
FH = 3225#; FSI = 2325#; FF = 2325#

DST No. 2, 5786-5805' Drlr & Schlum.
Haliburton straddle test w/14' anchor and 19' between packers. T.D. 5819'

Did not take initial shut-in. Tool open 2½ hours with strong surface blow decreasing to end of test. Gas to surface in 1 3/4 hours. Just enough gas to barely burn. Final shut-in 30 minutes.

Recovered 4976' of fluid.
90' mud
180' muddy water
4706' very salty water

IH = 3270#; ISI = None; IF = 175#
FH = 3270#; FSI = 2312#; FF = 2312#

Pressure below the bottom packer bled off to 2600# indicating that the bottom packer held.

DST No. 3, 5806-5814' Drlr & Schlum
Haliburton straddle test with 158' of anchor and 8' between packers. T.D. 5972'.
Did not take initial shut-in. Tool open 2 hours with strong blow throughout test. Gas to surface in 34 minutes. Final shut-in 20 minutes.

Recovered 3669' of fluid
75' oil & gas cut mud
3594' oil cut salt water (6% oil cut at top decreasing to zero through the 3594' interval).

IH = 3312#; ISI = None; IF = 207#
FH = 3312#; FSI = 2320#; FF = 1735#
Pressure below the bottom packer bled off to 2427# indicating that the bottom packer held.

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DST No. 4, 5698-5768' Drlr & Schlum
Haliburton off bottom hook wall straddle test with 70' between packers. Strapped pipe in the hole.

Initial shut-in 30 min. Tool open 1 hour with no blow. Reset tool at the end of first 30 min. open to attempt by-pass. Final shut-in 30 min.

Recovered 30' mud.

IH = 3275#; ISI = 695#; IF = 46#
FH = 3250#; FSI = 95# FF = 46#

DST No. 5, 5775-5789' Drlr & Schlum
Haliburton straddle test with 183' anchor and 14' between packers. T.D. 5972'

Tool open 5 min to purge formation. Initial shut-in 30 min. Tool open 1½ hours with good surface blow. Final shut-in 30 min. Blow died during final shut-in. No gas to surface.

Recovered 3906' of fluid.
180' muddy water
3726' very salty water.

IH = 3155#; ISI = 2295#; IF = 235#
FH = 3130#; FSI = 2295#; FF = 1945#

Pressure below the bottom packer bled off to 3100# indicating that the bottom packer held.

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-K, NW NW, 28-42S-26E- San Juan Co. Utah

CRONOLOGICAL LOG

Oct 9	Rigging up. Laying water lines.
Oct 10	Rigging up.
Oct 11	Rigging up.
Oct 12	Rigging up. Spud on evening tour. Drld rat hole and 12¼" surface hole 0 to 42'.
Oct 13	Drlg 12¼" surf hole 42' to 300'. Ream 12¼" hole to 17"
Oct 14	Set 13 3/8" surf pipe @ 300' w/250 sxs. Drld mouse hole.
Oct 15	Drlg 12¼" hole 300' to 830'.
Oct 16	Drlg 12¼" hole 830 to 1420'.
Oct 17	Ran 1403' of 8 5/8". Dumped plug @ 7:45 a.m. W.O.C.
Oct 18	W.O.C. Drld plug @ 10:50 p.m. Drlg 1420 to 1474'. (30' cement) Drlg 7 7/8" hole.
Oct 19	Drlg 1474 to 1760'. 8 5/8" surf pipe parted. Drlg to 1880'.
Oct 20	Pull 1100' surf pipe. Ran same in hole. Try to screw in.
Oct 21	Pull and run 8 5/8" csg.
Oct 22	Milling and fishing for 8 5/8".
Oct 23	Same.
Oct 24	Ran bit in hole. Missed pipe (outside). Prepare to skid.
Oct 25	Skid rig 35'.
Oct 26	Drlg 12¼" hole 0 to 331'. Drill rat hole. Rigging up.
Oct 27	Drlg 12¼" hole 331 to 605'.
Oct 28	Drlg 605 to 1310'.
Oct 29	Drlg 12¼" hole 1310 to 1458'. Attempted to run 8 5/8" pipe but hit bridge.
Oct 30	Ran 47 jts, 1478' of 8 5/8" csg. set @ 1457' w/750 sxs. Pos 4% gel, 400 sxs reg 2% CaCl 200 sxs reg 3% CaCl. Plug down 6:00 a.m. Left 1363' cement in pipe. W.O.C. Drlg mouse hole.
Oct 31	Drlg 7 7/8" hole 1458 to 1625'.
Nov 1	Drlg 1625 to 2282'.
Nov 2	Drlg 2282 to 2355'. Twisted off 10 D.C. @ 2282'. Fished same out. Lay same down.
Nov 3	Drlg 2355 to 2655'.
Nov 4	Drlg 2655 to 2890'.
Nov 5	Drlg 2890 to 3165'.
Nov 6	Drlg 3165 to 3291'.
Nov 7	Drlg 3291 to 3477'.
Nov 8	Drlg 3477 to 3662'.
Nov 9	Drlg 3662 to 3838'.
Nov 10	Drlg 3838 to 4008'.
Nov 11	Drlg 4008 to 4183'.
Nov 12	Drlg 4182 to 4320'.
Nov 13	Drlg 4320 to 4475'.
Nov 14	Drlg 4475 to 4644'.
Nov 15	Drlg 4644 to 4785'.
Nov 16	Drlg 4785 to 4893'.
Nov 17	Drlg 4893 to 4994'.
Nov 18	Drlg 4994 to 5100'.
Nov 19	Drlg 5100 to 5194'.
Nov 20	Drlg 5194 to 5319'.
Nov 21	Drlg 5319 to 5431'.
Nov 22	Drlg 5431 to 5559'.
Nov 23	Drlg 5559 to 5686'.
Nov 24	Drlg 5686 to 5772'.

Davis Oil Co. & Tiger Drlg. Co. Navajo 6-1-X, NW NW, 28-42S-26E, San Juan Co., Utah

Nov 25	Drlg 5772 to 5778'. Core #1 5778 to 5819'. Circ smple 1½ hrs. Trip out for core bbl. Cut 41', Recovered 40'. Began Core #1 @ 6:49 a.m., end core No. 1 @ 3:49 p.m. Go in hole for DST #1 5779 to 5819'. Tool open for 5 min then shutin initial for 30 min. Tool open 3 hrs. Final shutin 30 min. Gas to surface in 6 min. Flowed mud in 43 min for 15 min period then gassed without flowing until 1 hr and 20 min, then flowed mixture of oil & water for 20 min then gassed for remainder of test.
Nov 26	Pull DST #1 wait on orders - Run DST #2 5786-5805' Drlr. Pull DST #2.
Nov 27	Drlg 5819 to 5919'.
Nov 28	Drlg 5919 to 5927'. Core #2 5927 to 5972' T.D.
Nov 29	Ran Schlum E.S. Ind. Micro log & Gamma Ray Neutron. Ran DST #3 5806 to 5814'.
Nov 30	Ran DST #4 5698 to 5768'.
Dec 1	Ran DST #5 5775 to 5789'. Plugg ed and abandoned hole.

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-X, NW NW, 28-42S-26E, San Juan Co., Utah

BIT RECORD

1.	Smith	12¼"	DDT	0-300'	300'	
2.	C.P.	17½"		0-300'		
3.	Smith	7 7/8"	DT			
4.	C.P.	12¼"	ES1D	300-862'	562'	18½ hrs.
5.	Sec.	12¼"	S6	862-1420'	558'	13
6.	Smith	7 7/8"	DT	1420-1880'	460'	19
	(Skid rig - drill new hole)					
7.	Sec.	12¼"	M4N	0-357'	357'	18
8.	HTC	12¼"	OSC1G	357-634'	277'	15½
9.	Smith	12¼"	DT	634-1449'	815'	16½
10	"	12¼"	DT2G	1449-1458'	9'	¼
11	"	7 7/8"	DT2G	1458-1646'	188'	16
12	"	"	DT	1646-2146'	500'	14
13	C.P.	"	ES2G	2146-2282'	136'	3½
14	Reed	"	YT-1	2282-2541'	259'	11½
15	Sec.	"	S-4	2541-2746'	205'	24
16	Reed	"	YT1	2746-2892'	146'	8
17	Smith	"	DT2G	2892-3111'	219'	10
18	C.P.	"	ES2G	3111-3165'	54'	7
19	Smith	"	SU2	3165-3233'	68'	8
20	Sec	"	M4N	3233-3380'	147'	18
21	Reed	"	YS1	3380-3487'	107'	11
22	HTC	"	OWV	3487-3662'	175'	18 3/4
23	HTC	"	OWV	3662-3837'	175'	18½
24	Sec	"	M4N	3837-3957'	120'	14 3/4
25	Reed	"	YS1	3957-4079'	122'	15 3/4
26	Smith	"	SV2	4079-4187'	108'	12 3/4
27	HTC	"	OWV	4187-4320'	133'	18
28	C.P.	"	EM1V	4320-4432'	112	15 3/4
29	Sec.	"	M4N	4432-4559'	127'	14 3/4
30	Reed	"	YS1	4559-4695'	136'	15 3/4
31	Smith	"	SV2	4695-4787'	92'	14
32	Smith	"	SV2	4787-4852'	65'	10
33	Reed	"	YS1	4852-4922'	70'	13½
34	HTC	"	OSC	4922-4994'	72'	12½
35	C.P.	"	EM1V	4994-5060'	66'	11
36	Smith	"	K2P	5060-5133'	73'	13
37	Smith	"	"	5133-5194'	61'	13½
38	HTC	"	OSC1G	5194-5285'	91'	14½
39	Sec	"	S4	5285-5355'	70'	10½
40	Reed	"	YT1	5355-5431'	76'	12½
41	HTC	"	OSC1G	5431-5511'	80'	10
42	Sec	"	S4	5511-5564'	53'	7 3/4
43	HTC	"	OSC1G	5564-5687'	123'	19 3/4
44	Smith	"	K2P	5687-5761'	74'	14
45	Sec	"	S3	5761-5778'	17'	2
	Christensen	7 3/4	Diam	5778-5819'	41'	9
46	C.P.	7 7/8	Rerun	5778-5819'	41'	Reamed
47	Smith	"	K2PG	5819-5853'	34'	8
48	Reed	"	YS-1	5853-5927'	74'	9½
	Christensen	7 3/4	Diam	5927-5972'	44'	16¼

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-X, NW NW, 23-42S-26E, San Juan Co., Utah

MUD RECORD

Date	Depth	Wt	Vis	Gel	Filtrate	Cake	Sand	P.H.	Salt
Oct 19	1850'								
Nov 3	2551'	8.9	37	0-0	8.0	1.5	1/2	12.5	1400
Nov 4	2785'	10.5	43	0-5	6.0	1.5	1/4	12.5	1100
Nov 5	3133'	11.0	44	0-20	5.2	1.5	1 1/2	12.5	1400
Nov 7	3380'	10.8	44	0-20	4.0	1.5	3	12.5	1400
Nov 9	3760'	10.5	50	5-45	5.0	2.0	2	11.5	1400
Nov 11	4088'	10.6	41	0-2	6.0	1.5	3	10.0	1600
Nov 13	4448'	10.6	45	0-24	5.8	2.0	2 1/2	10.5	1350
Nov 15	4740'	10.6	43	0-20	5.0	2.0	2	11.8	1500
Nov 17	4970'	10.6	42	0-15	4.4	1.5	1 1/2	10.5	1600
Nov 19	5147'	10.7	43	0- 10	4.0	1.5	2	10.0	1600
Nov 21	5375'	10.5	41	0-5	4.0	1.5	1	12.0	1800
Nov 23	5610'	10.5	43	0-10	4.0	1.5	1/2	12.0	1800
Nov 25	5819'	10.5	47	0-14	3.6	1.0	1	12.0	1600
Nov 26	5819'	10.6	55	2-24	3.2	1.0	1	12.2	2000
Nov 28	5958'	10.6	55	4-30	4.4	1.0	3/4	11.5	2200

DEVIATION RECORD

Oct 13	103'	1/4°
Oct 15	500'	1
Oct 27	416'	1
Oct 28	620'	1
Oct 28	1050'	1
Oct 28	1250'	1
Nov 1	1640'	1 3/4
Nov 1	1883'	1 3/4
Nov 1	2082'	1 3/4
Nov 3	2340'	1 1/2
Nov 3	2541'	1 1/4
Nov 5	2850'	1
Nov 5	3111'	1
Nov 5	3165'	1
Nov 7	3380'	1
Nov 8	3445'	1
Nov 8	3662'	Blank
Nov 12	4150'	3/4
Nov 12	4320'	1/4
Nov 13	4432'	0
Nov 14	4559'	1
Nov 15	4650'	3/4
Nov 16	4852'	1/2
Nov 17	4994'	3/4
Nov 18	5060'	1/2
Nov 20	5285'	Blank
Nov 22	5511'	1/2
Nov 24	5660'	3/4

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-X, NW NW, 28-42S-26E, San Juan Co., Utah

CORING TIME

	minutes per foot
5778-5798	8-5-13-13-18-23-19-14-10-13-11-11-11-9-16-15-14-11-16-13
-5819	11-10-11-13-15-13-15-15-15-14-14-12-12-12-12-9-11-9-11-12-10
5927-5947	10-23-26-26-33-28-17-20-15-23-23-18-17-18-20-17-19-19-23-19
-5967	29-29-23-23-24-23-24-20-23-19-21-18-20-21-16-16-19-16-18-16
-5972	19-27-27-27-26

PLUGGING PROCEDURE

1.	5825 up to 5750'	75'	23 1/2 sxs	Across Ismay
2.	4875 up to 4775'	100'	31 1/3 sxs	Across Hermosa
3.	2950 up to 2850'	100'	31 1/3 sxs	Across DeChelly
4.	1500 up to 1450'	50'	20 sxs	Btm surf csg.
5.	15 up to 0'	15'	5 sxs	Top surf csg.

Location to be cleaned up and restored to good condition.

DAVIS OIL COMPANY

OIL PRODUCERS

1020 MIDLAND SAVINGS BLDG. • DENVER 2, COLORADO • ALpine 5-4661

NEW YORK, NEW YORK
DENVER, COLORADO
SALT LAKE CITY, UTAH
CASPER, WYOMING
ALBUQUERQUE, NEW MEXICO

COPY

January 4, 1961

Re: Navajo D-1-X
NW NW Sec. 28-42S-26E
San Juan Co., Utah

U. S. Geological Survey
Mr. F. T. McGrath
P. O. Box 965
Farmington, New Mexico

Dear Sir:

Enclosed please find the following:

1) An original and two copies of our Notice of Intention to Abandon, submitted for your approval.

2) An original and two copies of Log of Oil or Gas Well.

3) 1 copy of the Geological Report.

By a carbon copy of this letter, we are furnishing the Oil & Gas Conservation Commission with 1 copy of the Log of Oil or Gas Well and 1 copy of the Geological Report.

Thank you for your cooperation. The subsequent report of abandonment will be filed in the very near future.

Yours very truly,

DAVIS OIL COMPANY

C. C. Ramsey

CCR:ljp
Encls.

CC: Oil & Gas Conservation Commission
310 Newhouse Bldg.
Salt Lake City, Utah
Attn: Mr. Cleon Feight

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-X, NW NW, 28-42S-26E, San Juan Co., Utah

DST RECORD

DST No. 1. 5779-5819' Drlr & Schlum.
H aliburton straight host with 40' of anchor, T.D. 5819'.

Opened tool to purge formation for 5 min. with good surface blow. Took initial shut-in for 30 minutes. Opened tool to test. Had gas to surface in 1 minute. Flowed mud in 43 min. for a 15 minute period until the end of 58 min. open. Then gassed without flow of liquid for 22 min. until end of 1 hr & 20 min open, then flowed mixture of oil and saltwater for 20 minutes to the end of 1 hour and 40 min. open. Then gassed without flow of liquid for 1 hour & 20 min. to end of test. Tool was open 3 hrs. Took 30 min final shut-in during which time had flow of gas.

Recovered 5100' of fluid.
150' oil, mud & water mixed.
450' clean, high gravity brown oil.
4500' very salty water (134,000 PPM)

IH = 3225#; ISI = 2345#; IF = 792#; FH = 3225#; FSI = 2325#; FF = 2325#

DST No. 2. 5786-5805' Drlr & Schlum.
Haliburton straddle test w/14' anchor and 19' between packers. T.D. 5819'

Did not take initial shut-in. Tool open 2½ hours with strong surface blow decreasing to end of test. Gas to surface in 1 3/4 hours. Just enough gas to barely burn. Final shut-in 30 minutes.

Recovered 4976' of fluid.
90' mud
180' muddy water
4706' very salty water

IH = 3270#; ISI = None; IF = 175#; FH = 3270#; FSI = 2312#; FF = 2312#

Pressure below the bottom packer bled off to 2600# indicating that the bottom packer held.

DST #3. 5806-5814' Drlr & Schlum
Haliburton straddle test with 158' of anchor and 8' between packers. T.D. 5972'.

Did not take initial shut-in. Tool open 2 hours with strong blow throughout test. Gas to surface in 34 minutes. Final shut-in 20 minutes.

Recovered 3669' of fluid
75' oil & gas cut mud
3594' oil cut salt water (6% oil cut at top decreasing to zero through the 3594' interval).

IH = 3312#; ISI = None; IF = 207#; FH = 3312#; FSI = 2320#; FF = 1735#
Pressure below the bottom packer bled off to 2427# indicating that the bottom packer held.

Davis Oil Co. & Tiger Drlg. Co. Navajo D-1-X, NW NW, 28-41S-26E, San Juan Co., Utah

DST No. 4. 5690-5768' Drlr & Schlum
H aliburton off bottom hook wall straddle test with 70' between packers. Strapped pipe in the hole.

Initial shut-in 30 min. Tool open 1 hour with no blow. Reset tool at the end of first 30 min. open to attempt by pass. Final shut-in 30 min.

Recovered 30' mud.

IH = 3275#; ISI = 695#; IF = 46#; FH = 3250#; FSI = 95#; FF = 46#

DST No. 5. 5775-5789' Drlr & Schlum
Haliburton straddle test with 183' anchor and 14' between packers. T.D. 5972'.

Tool open 5 min to purge formation. Initial shut-in 30 min. Tool open 1½ hours with good surface blow. Final shut-in 30 min. Blow died during final shut-in. No gas to surface.

Recovered 3906' of fluid.
~~180'~~ muddy water
3726' very salty water.

IH = 3155#; ISI = 2295#; IF = 235#; FH = 3130#; FSI = 2295#; FF = 1945#

Pressure below the bottom packer bled off to 3100# indicating that the bottom packer held.

Form [illegible] (Apr[illegible])

Budget No. 42-R359.4.
Approval Expires 12-31-60.

[redacted]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Lease No. [redacted]

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 REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	[redacted]
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)

October 23, 19 61

Navajo B-1-X

Well No. 1 is located 500 ft. from {N/S} line and [redacted] ft. from {E/W} line of sec. 28

NW/4 of Sec. 28 (¼ Sec. and Sec. No.) | 42S (Twp.) | 26E (Range) | SLBM (Meridian)

Wildcat (Field) | San Juan (County or Subdivision) | Utah (State or Territory)

The elevation of the derrick floor above sea level is 4801 ft.

D 1-X

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)

Well plugged as follows:

1.	5972 T.D.	up to 5825	147'		filled hole w/heavy mud
2.	5825	up to 5750	75'	23½ sxs cement	across Ismay
3.	5750	up to 4875	875'		filled hole w/heavy mud
4.	4875	up to 4775	100'	31 1/3 sxs cement	across Hermosa
5.	4775	up to 2950	1825'		filled hole w/heavy mud
6.	2950	up to 2850	100'	31 1/3 sxs cement	across DeChelly
7.	2850	up to 1500	1350'		filled hole w/heavy mud
8.	1500	up to 1450	50'	20 sxs cement	base of surface casing
9.	1450	up to 15'	1435'		filled surface csg w/heavy mud
10.	15	up to 0	15'	5 sxs cement	in top of surf csg w/marker

Location cleaned up and restored to good condition, and regulation marker erected. The location is now ready for inspection.

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

Company DAVIS OIL COMPANY

Address 1020 Midland Savings Bldg.

Denver 2, Colorado

By ORIGINAL SIGNED BY E. L. KARN, JR.
E. L. Karn, Jr.

Title Production Manager

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NEW YORK, NEW YORK
DENVER, COLORADO
SALT LAKE CITY, UTAH
CASPER, WYOMING
ALBUQUERQUE, NEW MEXICO

November 9, 1961

Ann. W. Glines
Oil & Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

Re: Well No. Navajo D-1-X
Sec. 28, T. 42 S., R. 26 E.
San Juan County, Utah

Dear Miss Glines:

In answer to your letter of November 7, 1961, concerning the discrepancy of the footage location on the above captioned well, please be advised that the correct footage location is 590' from the north line and 810' from the west line.

We are sorry for our oversight in this manner, and if there are further questions please feel free to contact us.

Thank you very much.

Yours very truly,

DAVIS OIL COMPANY

E. L. Karn, Jr.

E. L. Karn, Jr.
Production Manager

ELK-jt

November 7, 1961

Davis Oil Company
1020 Midland Savings Bldg.
Denver 2, Colorado

Attn: Paul Messinger, Exploration Manager

Re: Well No. Navajo D-1-X
Sec. 28, T. 42 S., R. 26 E.
San Juan County, Utah

Gentlemen:

According to the Notice of Intention to Drill for the above mentioned well, the footage location was 618' from the north line and 760' from the west line. However the following reports; Notice of Intention to Abandon, Subsequent Report of Abandonment, and Drillers Log all stated the footage location to be 590' from the north line and 810' from the west line.

Would you please advise us of the correct footage location for this well so that we will not have this discrepancy in our file.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ANN W. GLINES
RECORDS CLERK

AWG:kpb