

FILE NOTATIONS

Entered In NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

I W R for State or Fee Land

Checked by Chief RLL

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date Well Completed 6-16-61

Location Inspected \_\_\_\_\_

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_

Bond released \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA

State of Fee Land \_\_\_\_\_

Compla.

LOGS FILED

~~Driller's Log~~

Electric Logs (No. ) 3

E  E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro

Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic  Others \_\_\_\_\_

8-29-91  
JEE

# 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

March 13, 1961

Re: #1 Chinle Wash  
SW SW Sec. 23-43S-21E  
San Juan Co., Utah

Contract #14-20-603-389

C

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

Dear Sir:

O

Enclosed please find an original and two copies of our Notice of Intention to Drill and staking plat in connection with the captioned test. We are also enclosing an original and two copies of a Designation of Operator from The Ohio Oil Company, designating Davis Oil Company operator under the captioned lease.

P

By a carbon copy of this letter, we are furnishing Mr. Cleon Feight of the Oil & Gas Conservation commission, copies of our Notice and staking plat.

Y

We trust you will be able to give this Notice your early approval.

Yours very truly,

DAVIS OIL COMPANY

ORIGINAL SIGNED  
BY PAUL MESSINGER  
Paul Messinger  
Exploration Manager

PM:ljp  
Encls.

CC: The Ohio Oil Company

Oil & Gas Conservation Commission  
310 Newhouse Bldg.  
Salt Lake City, Utah

(SUBMIT IN TRIPLICATE)

Indian Agency Window Rock

	23	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_  
Lease No. 14-20-603-389

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	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)

March 13, 1961

Well No. 1 Chinle/ <sup>Wash</sup> is located 660 ft. from <sup>XXXX</sup> [S] line and 660 ft. from <sup>XXXX</sup> [W] line of sec. 23  
 SW SW SEC. 23                      43S                      21E                      SLM  
(¼ Sec. and Sec. No.)                      (Twp.)                      (Range)                      (Meridian)  
Wildcat                      San Juan                      N.M.  
(Field)                      (County or Subdivision)                      (State or Territory)

The elevation of the ~~derick floor~~ <sup>ungraded ground</sup> above sea level is 5226.0 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)

- To set approximately 200' of 8/5-8" csg. or larger, surface pipe cemented to surface. In the event we encounter loss of circulation problems, an adequate intermediate string will be set.
- To test 300' below top of Molas formation at approximately 6200'
- Rotary hole below the shoe of surface csg. will be 7-7/8".
- Good Oil field practice will be utilized in determining the necessity or desirability of coring or drill stem testing any oil and gas shows encountered.
- In the event of commercial production, a 5 1/2" csg will be set through the oil and/or gas zones and cemented with 150 sxs of cement which will displace the cement approximately 1000' behind the pipe.
- An IES, Microlog and Gamma-ray/Staic Caliper will be run.

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

ORIGINAL SIGNED  
 By BY PAUL MESSINGER  
Paul Messinger  
 Title Exploration Manager

Company DAVIS OIL COMPANY

Lease NAVAJO Well No. \_\_\_\_\_

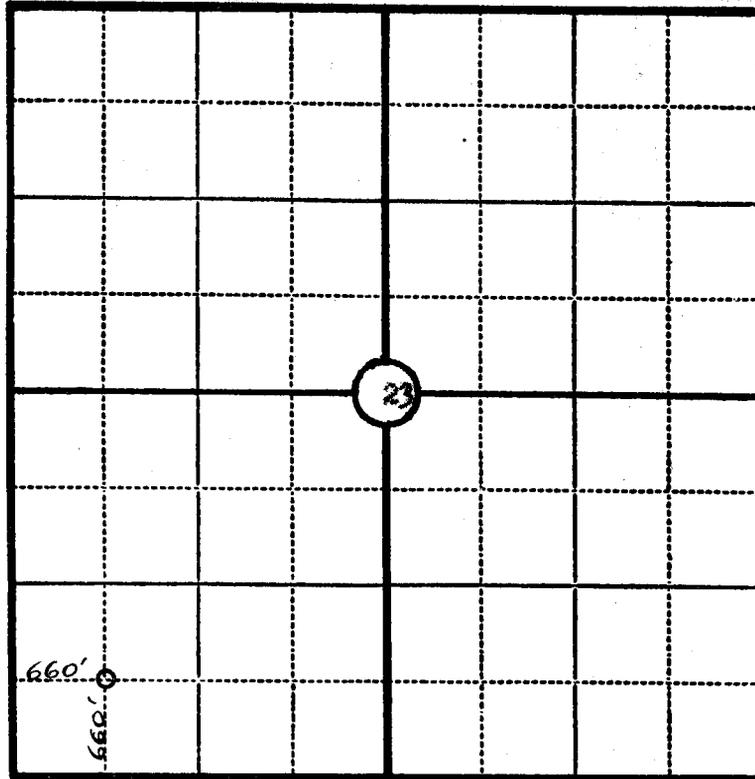
Sec. 23, T. 43 S., R. 21 E. S.L.M.

Location 660' FROM THE SOUTH LINE AND 660' FROM THE WEST LINE.

Elevation 5226.0 UNGRADED GROUND.

SAN JUAN COUNTY

UTAH



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

*James P. Lease*

Seal:

Registered Land Surveyor.

James P. Lease

Utah Reg. No. 1472

Surveyed 10 February, 19 61

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

March 15, 1961

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

Attn: Paul Messinger, Exploration Manager

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. #1 Chinle Wash, which is to be located 660 feet from the south line and 660 feet from the west line of Section 23, Township 43 South, Range 21 East, S1EM, 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. FREIGHT,  
EXECUTIVE SECRETARY

CBF:avg

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

H. L. Coonts - OGCC, Moab

# DAVIS OIL COMPANY



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

May 15, 1961

Re: #1 Chinle Wash  
SW SW Sec. 23-43S-21E  
San Juan Co., Utah

Mr. P. T. McGrath  
U. S. Geological Survey  
P. O. Box 959  
Farmington, New Mexico

Dear Sir:

Enclosed herewith for your files is an original and two copies of Sundry Notices and Reports on Wells, "Supplementary Well History", covering the subject well.

By carbon copy of this letter we are forwarding one copy of this report to Mr. Cleon Feight, Oil & Gas Conservation Commission, in Salt Lake City, Utah.

Yours very truly,

DAVIS OIL COMPANY

ORIGINAL SIGNED  
BY PAUL MESSINGER

Paul Messinger  
Exploration Manager

PM-jt  
Encls.

cc- Mr. Cleon Feight

copy HC 102

(SUBMIT IN TRIPLICATE)

Indian Agency Window Rock

	23		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_  
Lease No. \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL _____	SUBSEQUENT REPORT OF WATER SHUT-OFF _____	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____	SUBSEQUENT REPORT OF ABANDONMENT _____	
NOTICE OF INTENTION TO PULL OR ALTER CASING _____	SUPPLEMENTARY WELL HISTORY _____	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO ABANDON WELL _____		

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

May 15, 19 61

#1 Chinle Wash

Well No. 1 is located 660 ft. from S line and 660 ft. from W line of sec. 23

SW SW Section 23  
(¼ Sec. and Sec. No.)

43S  
(Twp.)

21E  
(Range)

SLM  
(Meridian)

Wildcat  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

Ungraded Ground

The elevation of the ~~surface~~ above sea level is 5226.0 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)

- Spudded at 7:45 P.M., 5-2-61.
- Reamed 12 1/4" hole to 17 1/4" hole to 225'. Ran 274.42' of 13 7/8" surface casing. Used 225 cc regular cement, and 2% cc. Plugged down at 2:30 P.M., 5-4-61.
- On 5-15-61, drilling at 3858'. Sample tops: Chinle sh 1220'  
DeChally ss 2210'.

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

ORIGINAL SIGNED  
BY PAUL MESSINGER  
By Paul Messinger  
Title Exploration Manager

### SAMPLE DESCRIPTION

(Samples Start at 290' in Navajo)

- 290-310 Sandstone, light tan to white, fine grained, friable, porous, few pink grains.
- 310-460 Sandstone, light tan, fine to medium grained, friable, porous, locally slightly calcareous.
- 460-520 Sandstone, light tan to nearly white, fine to medium grained, friable, porous.
- 520-530 Skip
- 530-540 Shale, maroon, blocky, micaceous with abundant sandstone as above.
- 540-550 Sandstone, light tan to white, fine grained, friable, with considerable maroon shale as above.
- 550-560 Shale & Sandstone, shale is brown to maroon, silty, micaceous; sandstone is tan, pink and light brown, considerable brownish siltstone.
- 560-590 Sandstone, light brown to reddish brown, fine grained, friable with abundant reddish brown, micaceous siltstone.
- 590-600 Sandstone, light brown, pink to tan, fine grained, mostly friable, some slightly calcareous - some brown siltstone.
- 600-670 Sandstone, light brown to tan to pinkish, fine to medium grained, angular to sub-angular, non-calcareous to slightly calcareous with minor amount of brown, micaceous siltstone - trace brown shale locally.
- 670-720 Sandstone, mostly light brown, some with purplish to reddish tinge - some sand is tan, fine to medium grained; trace brown siltstone.
- 720-810 Sandstone, brown to reddish-brown, fine to medium grained, friable.
- 810-840 Sandstone, light brown to reddish-brown, some buff colored sandstone, fine grained, friable but dirty and silty.
- 840-900 Sandstone, light brown predominant, some reddish-brown to purple-brown, fine grained. friable but dirty and silty.

↓ more in file to <sup>-5-</sup> T.D. 6385 FT.

WELL SUMMARY

COMPANY: Davis Oil Company  
WELL: # 1 Chinle Wash  
AREA: Chinle Wash  
LOCATION: C SW SW S23-T43S-R21E, San Juan Co., Utah  
CONTRACTOR: Century Drilling Company, Farmington, N.M.  
Troy Rogers, Toolpusher  
ELEVATION: 5226' (Ground) 5238' (KB)  
SPUDED: May 2, 1961  
FINISHED DRILLING: June 16, 1961  
CASING: 13-3/8" cemented @ 274.42'  
CORES: None  
DRILL STEM TESTS: one - 5396-5448 (See details)  
LOGGING SERVICE: 1. Schlumberger, I-ES 275-6384  
2. " , GR-Sonic 275-6384  
3. " , Microlog 4300-6384  
TOTAL DEPTH: 6385' (Driller) 6384' (Schlumberger)  
PLUGGING PROCEDURE: Plug # 1 6170-6200 25 Sacks  
" # 2 5365-5400 25 "  
" # 3 5100-5130 25 "  
" # 4 2200-2230 25 "  
10 sack surface plug with regulation  
dry hole marker cemented in.  
STATUS: D & A

FORMATION TOPS

<u>Formation</u>	<u>Sample</u>	<u>E-Log and/or GR-Sonic</u>
Navajo (Surface)		
DeChelly	2210' (-3028)	2210' (-3028)
Organ Rock	----	2585' (-2653)
Hermosa	4315' (-923)	4305' (-933)
Ismay	----	5106' (-132)
Desert Creek	5245' (-7)	5244' (-6)
Akah	----	5394' (-156)
Molas	5982' (-744)	5972' (-734)
Mississippian	6183' (-945)	6182' (-944)

*RD*

DAVIS OIL COMPANY

# 1 CHINLE WASH

SAN JUAN COUNTY

UTAH

\*\*\*\*\*

REPORT BY

JAMES W. NANCE

CONSULTING GEOLOGIST

*N*

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CHRONOLOGICAL LOG

- May 2, Spudded at 7:45 P.M. - 12 $\frac{1}{2}$ " hole  
Drilled 0-42 Lost circulation - Mixed mud.
- " 3, Drilled 42-290
- " 4, Reamed hole to 17 $\frac{1}{4}$ "  
Ran 8 joints, 262.42' of 13-3/8", 48.00#, H-40, 8RT casing and landed at 274.42'(KB). Cemented by Howco with 225 sacks regular cement, 2% gel, circulated cement - plug down at 2:30 P. M.
- " 5, Nippled up - drilled plug at 5:15 P.M. - found top of cement at 249' - drilling with 7-7/8" bit.  
Drilled 290-459 - lost circulation, mixed mud.  
Stuck drill pipe - working stuck pipe. Spot 20 barrels of oil.
- " 6, Picked up jars and bumper sub and jarred on pipe - would not come loose - backed off 11 drill collars, went in hole with jars and bumper sub and screwed into top of fish - jarred loose at 6:30 P. M.
- " 7, Drilled 459-1460 - 8-3/4" hole
- " 8, " 1460-2182
- " 9, " 2182-2773
- " 10, " 2773-3078
- " 11, " 3078-3293
- " 12, " 3293-3498
- " 13, " 4398-3692
- " 14, " 3692-3829
- " 15, " 3829-3945
- " 16, " 3945-3990 Twisted off at 3990' - left 13  
drill & bit in hole - recovered  
fish on second run of overshot.
- " " 3990-4014
- " 17, " 4014-4160

May	18,	Drilled	4160-4270	
"	19,	"	4270-4321	- Twisted off at 4321', left 16 drill collars in hole - went in hole with overshot, recovered fish.
"	20,	"	4321-4400	- Twisted off leaving 11 drill collars in hole - ran overshot, recovered fish, pulling out of hole.
"	21,			Recovered only 9 drill collars, had twisted off in two places - went back in hole with overshot and recovered the two remaining collars.
		"	4400-4425	
"	22,	"	4425-4496	
"	23,	"	4496-4590	- Lost about 1' of mud from pits did not lose returns.
"	24,	"	4590-4627	- Broke pump clutch shaft - pulled out of hole - 7 $\frac{1}{2}$ hours drilling.
"	25,			Having new shaft fabricated in machine shop.
"	26,			Received shaft on location - preparing to install in compound. Finished installing shaft.
		"	4627-4659	- 6 hours drilling
"	27,	"	4659-4733	
"	28,	"	4733-4835	
"	29,	"	4835-4900	
"	30,	"	4900-4999	
"	31,	"	4999-5060	
June	1,	"	5060-5134	
"	2,	"	5134-5207	
"	3,	"	5207-5293	
"	4,	"	5293-5362	
"	5,	"	5362-5460	

June 6,	Drilled	5460-5523	
" 7,	"	5523-5620	
" 8,	"	5620-5739	
" 9,	"	5739-5818	
" 10,	"	5818-5906	
" 11,	"	5906-6003	
" 12,	"	6003-6087	
" 13,	"	6087-6148	
" 14,	"	6148-6218	
" 15,	"	6218-6369	
" 16,	"	6369-6385	- Started logging at 3:00 P. M. Caliper Log gear would not function with Gamma Ray-Sonic - ran caliper with Microlog - Finished logging at midnight.
" 17,		Waited on Halliburton Test Tool 10 hours. Ran DST # 1 - 5396-5448'	(See Details)
" 18,		Plugged and abandoned - See details of plugging in Well Summary.	

BIT RECORD

Bit #	Size	Make	Type	In	Out	Foot- age	Hours	Weight 1000's Lbs.
1	7-7/8	HTC	OSC3	275	459	184	1½	
2	8-3/4	HTC	"	459	1309	850	11	
3	"	HTC	"	1309	1842	533	10	
4	"	HTC	"	1842	2182	340	8-3/4	
5	"	HTC	"	2182	2649	467	8-3/4	40
6	"	HTC	"	2649	2773	124	8-3/4	40
7	"	HTC	OSC1G	2773	2950	177	10½	40
8	"	CP	ES2G	2950	3150	200	12	40
9	"	HTC	OSC1G	3150	3280	130	9	40
10	"	HTC	"	3280	3415	135	11	40
11	"	HTC	"	3415	3565	150	13¼	40
12	"	HTC	"	3565	3692	127	11¾	40
13	"	HTC	"	3692	3828	136	11¾	40
14	"	CP	ES2G	3828	3912	84	14½	40
15	"	HTC	OWV	3912	3990	78	9	40
16	"	HTC	OWV	3990	4086	96	12	40
17	"	HTC	"	4086	4228	142	18½	40
18	"	HTC	"	4228	4321	93	17	40
19	"	HTC	OW	4321	4400	79	14½	40
20	"	HTC	OWC	4400	4492	92	21	23
21	"	HTC	OWC	4492	4597	105	25-3/4	25
22	"	HTC	OW	4597	4627	30	5½	25
23	"	HTC	"	4627	4712	85	17¾	25
24	"	HTC	OWC	4712	4741	29	7½	42
25	"	HTC	"	4741	4837	96	16-3/4	43
26	"	HTC	"	4837	4900	63	14	43
27	"	HTC	W7	4900	4999	99	18-3/4	43
28	"	HTC	"	4999	5029	30	6½	43
29	"	HTC	"	5029	5107	78	14½	43
30	"	HTC	"	5107	5134	27	7-3/4	43
31	"	HTC	"	5134	5207	73	15½	43
32	"	HTC	"	5207	5293	86	18-3/4	43
33	"	HTC	"	5293	5362	69	18	45
34	"	HTC	"	5362	5460	98	15	45
35	"	HTC	"	5460	5523	63	15-3/4	45
36	"	HTC	"	5523	5620	97	19¼	45
37	"	HTC	"	5620	5739	119	18	45
38	"	HTC	"	5739	5818	79	18	45
39	"	HTC	"	5818	5906	88	17½	45
40	"	HTC	"	5906	6003	97	18½	45

Bit #	Size	Make	Type	In	Out	Foot- age	Hours	Weight 1000's Lbs
41	8-3/4	HTC	W7	6003	6087	84	18 $\frac{1}{2}$	45
42	"	HTC	"	6087	6148	61	18	45
43	"	HTC	"	6148	6218	70	17 $\frac{1}{2}$	45
44	"	HTC	"	6218	6370	152	20 $\frac{1}{4}$	45
45	"	HTC	"	6370	6385	15	4	45

DRILLING MUD CHARACTERISTICS

(Recorded by Hayden Jolly - Baroid Service Engineer)

Date	Depth	Weight	Vis.	Water Loss	Cake	Sand %	pH
5- 5	459	9.3	33	15.5	3.0	4	7.0
5- 7	704	9.0	34	6.8	2.0	3/4	10.5
5- 9	2649	9.6	37	7.6	2.0	0	9.0
5-11	3190	10.0	38	4.5	1.5	1/2	8.5
5-13	3565	9.6	46	9.8	2.0	1	10.5
5-15	3889	9.7	33	16.4	3.0	1/2	10.0
5-17	4086	9.9	39	15.5	2.5	3/4	9.0
5-19	4320	10.2	34	20.8	2.5	1/4	8.0
5-21	4400	10.1	41	8.8	2.0	Nil	8.0
5-23	4553	9.7	34	10.4	2.0	"	8.0
5-25	4627	9.6	37	8.2	2.0	"	10.5
5-28	4767	9.7	37	7.0	2.0	"	10.0
5-30	4955	9.8	41	6.0	2.0	"	8.5
6- 1	5107	9.9	49	4.8	2.0	"	8.5
6- 3	5246	9.8	44	5.2	2.0	1/4	8.5
6- 5	5413	9.8	45	3.6	1.5	Nil	8.5
6- 7	5567	9.9	48	6.0	2.0	"	8.0
6- 9	5767	9.6	39	8.4	2.0	"	8.0
6-11	5949	9.7	48	6.4	2.0	"	8.0
6-13	6120	9.8	50	8.4	2.0	"	8.0
6-15	6304	9.5	46	7.6	2.0	"	8.0

DRILLING TIME  
(Minutes per 10')

	10	20	30	40	50	60	70	80	90	00
100										
200										
300										
400										
500	4	4	4	4	6	10 7	9 5	8 6	8 7	5 7
600	7	6	7	8	7	7	6	7	6	5
700	5	5	6	5	5	6	5	6	5	5
800	5	5	6	5	5	4	5	6	4	4
900	4	4	3	4	5	4	5	4	4	4
1000	4	3	4	5	6	9	5	5	6	5
1100	10	10	10	10	10	9	8	7	7	9
1200	10	9	9	8	10	10	12	11	12	11
1300	10	7	7	8	7	7	8	7	6	6
1400	6	7	8	9	9	10	9	9	8	9
1500	10	11	9	8	8	7	6	7	8	6
1600	6	5	6	7	6	7	8	10	10	10
1700	11	13	10	9	10	11	10	11	15	11
1800	8	8	10	15	13	13	13	15	17	15
1900	12	9	8	10	10	11	10	10	12	11
2000	11	11	10	11	10	10	12	16	14	12
2100	10	13	10	18	22	20	18	25	18	20
2200	20	6	5	4	5	7	7	7	6	6
2300	6	8	5	5	5	6	7	7	8	8
2400	6	8	7	7	7	7	7	7	7	6
2500	6	7	6	6	6	7	7	8	13	23
2600	20	20	25	33	28	28	30	33	35	49
2700	25	40	58	45	57	48	48	30	33	30
2800	30	31	29	40	40	35	40	37	35	32
2900	31	32	33	33	32	25	28	28	28	34
3000	31	28	35	32	30	36	29	38	35	36
3100	39	39	36	35	41	33	39	38	40	37
3200	40	39	34	34	31	31	41	54	29	38
3300	40	41	41	42	41	44	42	52	54	54
3400	50	52	39	59	50	45	41	60	62	64
3500	55	76	46	57	41	48	53	53	49	50

	10	20	30	40	50	60	70	80	90	00
3600	45	50	57	50	55	60	48	47	48	40
3700	27	43	38	37	38	43	50	56	50	48
3800	48	58	63	54	70	96	94	115	90	95
3900	88	50	48	48	56	54	60	65	73	55
4000	56	55	70	70	82	82	80	78	86	50
4100	50	64	63	92	70	78	76	88	91	85
4200	80	73	80	80	71	100	98	80	76	99
4300	115	140	65	65	70	78	92	83	124	135
4400	130	128	128	125	130	135	173	165	165	110
4500	105	105	115	130	145	135	155	140	170	155
4600	127	123	115	105	107	98	110	135	118	112
4700	126	152	162	140	96	76	85	115	98	93
4800	100	106	107	124	135	130	113	110	115	135
4900	110	100	105	103	100	105	132	123	112	125
5000	98	105	140	95	95	100	100	112	110	115
5100	155	143	148	145	138	125	105	110	113	140
5200	140	100	118	145	140	90	125	163	140	130
5300	138	150	188	185	120	130	95	76	85	60
5400	46	55	75	60	113	158	98	148	168	164
5500	140	106	162	98	108	107	107	108	113	115
5600	108	110	50	55	85	90	90	52	65	85
5700	85	107	120	130	130	165	184	132	126	123
5800	124	106	89	70	89	105	107	155	166	139
5900	95	82	95	95	85	90	115	175	130	120
6000	90	135	135	155	108	90	75	130	120	70
6100	160	160	240	194	195	110	130	140	135	133
6200	184	140	62	65	70	80	74	60	48	55
6300	55	62	83	74	76	110	130	115		

## GEOLOGIC NOTES

The Davis Oil Company, # 1 Chinle Wash well was drilled in order to test the Southeast end of the Chinle Wash Structure. The Ohio Oil Company, # 1 Navajo well was drilled in Section 10, Township 43 South, Range 21 East, in 1954. This well was plugged, but later plugs were drilled, pipe run, and an attempt was made to complete it for an oil well. Some oil was produced - a few hundred barrels - but it was non-commercial and was later re-plugged.

In 1956, U. S. Smelting Refining & Mining drilled a well in section 9 of this township and made a gas-distillate discovery. At present there are two shut-in gas distillate wells and two dry holes on the Northwest end of this structure.

It was suggested that there might be some porosity development in the upper portion of the Desert Creek section on the southeast end of this structure, similiar to that found on the Northwest end. The zone that produces in the U. S. Smelting wells however, had only two and one-half feet of porosity in this well, and it contained no show of oil or gas.

The upper part of the Akah section however, did have some porosity, but it tested sulphur water (see drill stem test data). This was no surprise however, since this zone was found to be structurally lower than water bearing strata a few miles to the north, on the same structure.

Although not definitely proven, the results of this well certainly suggests that the porosity (reef-like build-up) is limited to the North or Northeast half of this structure.

## OPERATIONAL SUMMARY

Since severe lost circulation was experienced in the Ohio and U. S. Smelting wells, a few miles to the north, it was anticipated that similiar conditions would be encountered in this well. In view of this it was deemed advisable to pre-treat the mud with lost circulation material prior to drilling into this zone. Fortunately, this lost circulation zone was not present in this well. A few barrels of mud were lost at about 4500' and again at 6256', but compared to the wells to the north, this was inconsequential as returns were never completely lost. It is estimated that the total mud lost did not exceed 150 barrels.

Although some trouble was experienced in the form of twisting off drill collars, and down time due to mechanical failures on the rig, the overall operation was quite satisfactory. A good rate of penetration was recorded for actual, on bottom rotating time. The 46 bits used is better than average for this area. It is likely this number might have been reduced by three or four had it not been for the mechanical difficulties experienced on the rig.

Although a dry hole is always distasteful, it is less unpleasant if no unexpected operational difficulties are experienced. From an operational standpoint, the results of this well are considered to be entirely satisfactory.

Submitted by,

*James W. Nance*  
James W. Nance  
Consulting Geologist

Denver, Colorado  
June 1961

- 900 -1070 Sandstone, brown to reddish-brown, fine to medium grained, ill-sorted, friable, dirty, slightly calc.
- 1070-1100 Sandstone, as above predominant, with considerable maroon to purple siltstone.
- 1100-1220 Sandstone, brown to maroon, fine grained, dirty, tight, grading to siltstone.
- 1220-1230 Shale & sandstone, shale is maroon, brown, some purple, micaceous, flakey, sandstone as above.
- 1230-1260 Shale, maroon to purple, some with greenish-gray mottling, fissile, micaceous.
- 1260-1290 Shale & Sandstone, shale as above; sandstone is brown to maroon, fine grained, grading to siltstone.
- 1290-1300 Shale, maroon to purple, micaceous, fissile, with abundant sandstone as above.
- 1300-1310 Sandstone, brown to maroon, fine to medium grained, friable but tight, with abundant shale as above.
- 1310-1730 Shale, maroon predominant, some brown and purple, some greenish-gray mottling, micaceous, locally silty, trace tan, fresh water limestone 1500-1510 & 1660-1670.
- 1730-1840 Shale, maroon predominant, considerable green and greenish-gray, some brown and purple, some mottling, slightly calcareous - trace buff, fresh water limestone 1740-50.
- 1840-1870 Shale, as above, some increase in purple shale.
- 1870-1910 Limestone, gray to buff, containing quartz pellets at random, some appears to be limestone conglomeratic material, some gray, coarse grained to finely conglomeratic sandstone with calcareous cement. Abundant shale as above.
- 1910-1990 Shale, maroon, purple, brown, some green to greenish-gray mottling, locally silty to sandy - some medium gray to light gray limestone 1910-1930.
- 1990-2100 Shale, maroon, purple, brown, with considerable medium gray shale, some green to greenish-gray, some mottling - trace chocolate brown silty shale.
- 2100-2180 Shale, maroon, purple, chocolate brown, some brown siltstone, some gray shale - trace pyrite 2130-40.

- 2180-2200 Shale & Sandstone, shale as above; sandstone is light gray, fine to coarse grained, mostly friable, calcareous cement. (Sample mostly shale, some free quartz grains suggests some of sand drilled up)
- 2200-2230 Shale, maroon, brown, purple - some large, free quartz grains in sample, few clusters (poor samples)
- 2230-2250 Sandstone, light brown, medium to coarse grained, friable, good porosity and permeability, many free quartz grains, slightly calcareous.
- 2250-2300 Sandstone, light brown predominant, some light gray, medium grained, porous, abundant maroon and purple shale.
- 2300-2430 Sandstone, light brown with trace of gray to brownish-gray, fine to coarse grained, friable, some with good porosity and permeability, some tight - many free quartz grains, probably most of sand drills up into free quartz grains. (Much shale in sample)
- 2430-2510 Sandstone, light brown, fine to medium grained, friable, but mostly tight, slightly calcareous - abundant shale in sample.
- 2510-2550 Shale, maroon to chocolate brown, some gray to greenish-gray, still some sandstone as above.
- 2550-2600 Shale, maroon to chocolate brown, much gray and greenish-gray, some mottling, considerable brown sandstone 2580-90.
- 2600-2620 Shale, as above with abundant brown, micaceous siltstone.
- 2620-2670 Shale & Siltstone, as above in about equal amounts.
- 2670-2700 Shale, maroon, chocolate brown, gray, some mottling, with abundant light brown to rust colored siltstone.
- 2700-2730 Shale & Siltstone, as above in about equal amounts.
- 2730-2770 Shale, maroon, purple, chocolate brown, gray, some mottling, minor amount of rust brown siltstone.
- 2770-2830 Shale, as above, with abundant brown siltstone.
- 2830-2900 Shale, maroon, gray, chocolate brown, some purple, some mottling.

- 2900-2970 Shale, as above with minor amount of brown siltstone.
- 2970-3010 Shale, as above, with abundant siltstone.
- 3010-3090 Shale, maroon, chocolate brown, some brown siltstone, trace anhydrite 3010-20; trace pyrite 3080-90.
- 3090-3200 Shale, as above with abundant siltstone.
- 3200-3340 Shale, maroon, chocolate brown, purple, green, greenish-gray, with considerable brown to maroon siltstone, some mottling - trace anhydrite 3210-20.
- 3340-3400 Shale, maroon to brown predominant, some gray, green, and greenish-gray. Considerable maroon to brown siltstone - minor amount of white anhydrite.
- 3400-3460 Shale, as above, with some increase in amount of anhydrite - mostly in form of inclusions in shale.
- 3460-3490 Shale, maroon to brown, some green and greenish-gray - some anhydrite - trace medium gray to greenish-gray, dense, impure limestone.
- 3490-3510 Shale, maroon to brown and green to greenish-gray, with minor amount of anhydrite.
- 3510-3520 Shale, maroon to brown and medium gray to greenish-gray - trace anhydrite - trace of gray, impure, cherty fracture limestone.
- 3520-3530 Shale, as above, no limestone noted.
- 3530-3540 Shale, as above, with trace of brownish-gray, dense limestone - trace anhydrite.
- 3540-3550 Shale, maroon, brown, gray, greenish-gray, some siltstone - trace gray, crystalline limestone, trace anhydrite.
- 3550-3560 Shale, as above, with trace of anhydrite and limestone as above - also trace of gray, medium grained, very calcareous sandstone.
- 3560-3570 Shale, maroon, brown, green and greenish-gray, trace gray limestone - trace anhydrite.
- 3570-3580 Shale, green predominant, abundant maroon and brown. Trace anhydrite.

- 3580-3620 Shale, green to greenish-gray & maroon to brown in about equal amounts - some maroon to brown siltstone - trace anhydrite.
- 3620-3680 Shale, maroon predominant, some green, brown, purple etc., trace siltstone, trace anhydrite, trace of gray limestone locally, probably in form of thin stringers, trace pyrite.
- 3680-3810 Shale, green to greenish-gray and maroon to brown in about equal amounts - some maroon to brown siltstone - trace anhydrite.
- 3810-3880 Shale, maroon, brown, green to greenish-gray, with abundant brown siltstone - trace anhydrite.
- 3880-3900 Shale, greenish-gray predominant with abundant maroon and brown - some brown siltstone.
- 3900-4080 Shale, maroon, brown, greenish-gray, with minor amount of brown siltstone - trace anhydrite - trace pyrite 3990-4010.
- 4080-4130 Shale, maroon, brown, green, gray with abundant brown to maroon siltstone. Some anhydrite locally, trace pyrite 4120-30.
- 4130-4170 Shale as above predominant, some siltstone, some light gray to light greenish-gray bentonitic shale. Trace anhydrite locally.
- 4170-4250 Shale, maroon, brown, purple and gray to greenish-gray, trace light green bentonitic shale - some brown siltstone - trace anhydrite locally.
- 4250-4320 Shale, maroon, purple, brown, green to greenish-gray, with abundant brown siltstone, considerable anhydrite locally.
- 4320-4330 Shale, as above with trace of gray, nodular limestone and reddish-gray, argillaceous limestone (apparently fresh water lime), only a few fragments noted.
- 4330-4350 Shale, as above with trace of medium gray, coarsely crystalline, cherty fracture limestone - only a few fragments noted.
- 4350-4390 Shale, maroon, light brown, dark brown, gray, green, greenish-gray, some dark brown siltstone, considerable anhydrite locally.

- 4670-4700 Shale, vari-colored as above, with abundant medium gray to light gray limestone, mostly finely X-ln.
- 4700-4710 Shale, maroon, brown, gray, greenish-gray, with abundant brown siltstone and a minor amount of medium gray to light gray limestone as above. Trace of gray to brownish-gray, very fine grained, tight, calcareous sandstone.
- 4710-4720 Shale, maroon, brown, gray, greenish-gray.
- 4720-4740 Shale, medium gray predominant with abundant maroon, brown and some gray shale that appears to be slightly bentonitic - trace brown siltstone.
- 4740-4750 Shale, medium gray to light gray, blocky, earthy.
- 4750-4770 Shale, gray, maroon, brown, greenish-gray, with trace of medium to dark gray, dense, brittle ls.
- 4770-4790 Shale, as above with abundant medium gray to light gray, finely to coarsely crystalline limestone.
- 4790-4840 Shale, medium gray to light gray, blocky, slightly bentonitic - some maroon and brown shale.
- 4840-4880 Limestone, medium gray to light gray, finely to coarsely crystalline - some slightly oolitic limestone. Abundant shale as above (samples poor, much re-cycled shale).
- 4880-4890 Limestone & Shale, both as above in about equal parts.
- 4890-4900 Shale, medium gray to light greenish-gray, blocky, with minor amount of gray limestone.
- 4900-4910 Limestone, medium gray to light gray, mostly finely crystalline, some finely granular, abundant gray and maroon shale.
- 4910-4920 Shale, medium gray to light gray predominant, abundant maroon and brown shale - minor amount of limestone.
- 4920-4950 Limestone, medium gray to light gray, mostly finely crystalline, some dense, some finely granular with abundant shale as above. (Sample quality poor).

- 4950-4960 Limestone, medium gray to light gray, dense to finely crystalline, locally fossiliferous, abundant gray and vari-colored shale in samples (hole condition not good).
- 4960-5000 Shale, medium gray to light gray, blocky, with considerable limestone as above - (samples mostly shale but believed to be drilling limestone - sample quality very poor)
- 5000-5030 Limestone, mostly light gray, some medium gray, finely crystalline to finely granular, locally slightly fossiliferous - (sample quality improved).
- 5030-5040 Limestone, medium gray to light gray, dense to finely crystalline, locally slightly fossiliferous. Trace of smoky chert.
- 5040-5060 Limestone, medium gray to light gray, dense to finely crystalline, abundant light gray, sandy limestone - (limestone matrix with abundant light, very fine, clear quartz grains included) Trace medium to dark gray, fissile shale 5050-60.
- 5060-5090 Limestone, medium gray to light gray, dense to finely crystalline - trace sandy limestone as above- trace medium gray, fissile, calcareous shale.
- 5090-5100 Limestone, as above with abundant gray, maroon and brown shale - trace smoky chert - trace light gray, fine grained, calcareous, tight sandstone.
- 5100-5110 Shale, maroon, gray, green, brown with some light gray limestone (contaminated sample after trip).
- 5110-5115 Limestone, medium gray, brownish-gray to light gray, dense to finely crystalline - abundant dark brown to smoky chert.
- 5115-5145 Limestone, brownish-gray, tan to light gray, dense to finely crystalline, some quite sandy - trace chert.
- 5145-5155 Limestone, medium gray, brownish-gray, tan to light gray, mostly dense, some finely crystalline, locally fossiliferous - few fusilinids noted.
- 5155-5165 Limestone, mostly medium gray, some light gray, mostly dense and hard, some finely crystalline.

- 5165-5170 Limestone, as above predominant, some brown to brownish-gray, finely to coarsely crystalline, a few fragments of which show a dull yellow fluorescence, a few fragments show a very slight cut upon crushing sample - no visible porosity or permeability - no visible stain.
- 5170-5180 Limestone, medium gray to light gray, dense to finely crystalline - some light brown to brownish-gray, finely to coarsely crystalline with a few fragments showing a dull, yellow fluorescence - no cut noted, no visible porosity.
- 5180-5215 Limestone, as above - fluorescence virtually absent.
- 5215-5225 Limestone, light gray to nearly white, dense to finely crystalline, hard, with considerable white to yellowish-white fluorescence - no initial cut, slight cut upon crushing sample - no visible porosity or permeability.
- 5225-5235 Shale & Limestone, shale is mostly medium gray, some dark gray, blocky to fissile; limestone as above - some brown dolomitic limestone grading to dolomite.
- 5235-5240 Limestone, medium gray to light gray, dense to finely crystalline - some re-crystallization. Some shows a fairly good white to yellowish-white fluorescence. No initial cut, questionable slight cut upon crushing sample - abundant shale and dolomite as above - trace smoky chert.
- 5240-5245 Dolomite, medium gray to dark gray, some brownish-gray, dense, argillaceous - considerable dark gray to black, fissile, slightly calcareous shale.
- 5245-5260 Limestone, medium gray, some brownish-gray, dense, argillaceous in part, some finely crystalline - abundant shale and dolomite as above. An occasional fragment shows light yellow but dull fluorescence, no initial cut, questionable slight cut upon crushing. No visible porosity.
- 5260-5265 Limestone, mostly light gray to nearly white, some medium gray to brownish-gray, hard, some slightly sandy - trace tan chert - some dark gray to black friable shale in sample.
- 5265-5270 Limestone, mostly light gray, some nearly white, some medium gray to brownish-gray, dense to finely crystalline, also some light gray to tan oolitic limestone, showing fair to good porosity - no show - drilling break 5258<sup>1</sup>/<sub>2</sub>-5261 probably is this oolitic porosity.

- 5270-5280 Limestone, medium gray to light gray, dense to finely crystalline - some slightly sandy - some smoky chert.
- 5280-5305 Limestone as above, little or not chert.
- 5305-5320 Limestone, medium gray to light gray, mostly dense, some finely crystalline - abundant gray translucent chert.
- 5320-5325 Limestone, medium gray to light gray, mostly dense, some finely crystalline - locally fossiliferous - trace smoky to tan chert.
- 5325-5335 Shale, medium gray with abundant maroon to brown - considerable gray limestone.
- 5335-5340 Limestone, medium gray to light gray, dense to finely crystalline, few fragments of coarsely crystalline limestone - abundant medium gray shale.
- 5340-5345 Limestone, mostly medium gray, some light gray, finely to coarsely crystalline, some locally sandy - some medium gray shale.
- 5345-5350 Limestone, medium gray to light gray, finely to coarsely crystalline - some of darker colored limestone shows some re-crystallization.
- 5350-5360 Limestone, light gray to nearly white, dense to finely crystalline - trace dark gray limestone.
- 5360-5375 Limestone, probably as above, much up-hole contamination in samples.
- 5375-5385 Limestone, medium gray to light gray, dense to finely crystalline - considerable gray shale.
- 5385-5400 Limestone, brown to brownish-gray, dense to finely crystalline - some recrystallization - some light gray limestone.
- 5400-5405 Limestone, brown to brownish-gray, not too hard, locally oolitic, some slightly dolomitic, no visible porosity. A few fragments show a dull, yellow fluorescence, no initial cut, slight cut upon crushing sample.
- 5405-5415 Limestone, light brown to brownish-gray, dolomitic and grading to dolomite locally, some slightly oolitic but showing no visible porosity, an occasional fragment of dolomite and dolomitic limestone shows a slight, fine pin-point porosity - approx. 10% of sample shows a dull yellow-white fluorescence. No initial cut - slight cut after crushing - fair gas distillate odor.

- 5415-5430 Limestone & Dolomite, limestone is brown to brownish-gray and dolomitic,; dolomite is medium gray to brownish gray, granular to finely crystalline. An occasional fragment shows very poor, pin-point porosity and very slight, dull yellow-white fluorescence - no cut.
- 5430-5440 Dolomite, brown to brownish-gray to medium gray, granular to finely crystalline with an occasional fragment showing a very slight pin-point porosity, (in total sample amount of porosity is negligible) Virtually no fluorescence - no cut.
- 5440-5450 Dolomite, gray to brownish-gray, mostly finely crystalline, no visible porosity - trace of dark, brownish-gray, argillaceous dolomite - trace white chalky limestone. (Drilling break 5436-41 appears to be the chalky limestone - no visible porosity or permeability).
- 5450-5460 Dolomite, dark gray to dark brownish-gray, dense, hard - some dark gray, calcareous shale.
- 5460-5470 Dolomite, dark gray to dark brownish-gray, locally argillaceous - some light gray dolomite - some light gray, dense limestone - trace gray shale - trace smoky chert.
- 5470-5490 Dolomite, medium gray to light gray, dense to finely crystalline - trace medium gray limestone - trace dark gray calcareous shale 5475-80 & 5485-90.
- 5490-5500 Limestone, medium to dark gray, some brownish-gray, dense to finely crystalline, hard - some dark gray to black, fissile shale.
- 5500-5510 Dolomite, medium gray to brownish-gray, dense to finely crystalline, hard - considerable limestone as above.
- 5510-5520 Dolomite & Limestone, as above in about equal amounts.
- 5520-5540 Dolomite & Limestone, as above (Poor sample after trip)
- 5540-5560 Limestone, medium gray to tan, dense to finely crystalline, locally fossiliferous, hard, considerable medium gray dolomite.
- 5560-5570 Limestone, as above, with minor amount of dolomite. Trace dark gray to black, blocky to fissile shale.

- 5570-5640 Limestone, medium gray to tan, finely crystalline to dense, locally fossiliferous, hard -(trace medium gray shale 5590-5600)
- 5640-5650 Limestone, mostly medium gray to light gray, some tan, not too hard, some chalky, locally fossiliferous.
- 5650-5660 Limestone, light gray, medium gray, tan, dense to finely crystalline - locally fossiliferous.
- 5660-5670 Limestone, as above, locally very fossiliferous, abundant fusulinids.
- 5670-5680 Limestone, mostly tan, some medium gray, abundantly fossiliferous - some almost coquina.
- 5680-5695 Dolomite, tan, finely granular, not too hard, slight intergranular porosity noted locally - a few fragments showing a very dull, white to yellowish-white fluorescence, No cut. Fluorescence is brighter in dry sample than in wet - has appearance of sulphur water fluorescence - fairly good drilling break 5673-81'.
- 5695-5700 Dolomite, tan to light gray, dense to finely granular, some very hard and non-porous - some of granular type and some of dense type shows a dull, yellow-white fluorescence - no cut - abundant tan to light gray, dense limestone.
- 5700-5710 Limestone, tan to medium gray, dense to finely crystalline - some of limestone is dolomitic - still considerable granular dolomite in sample.
- 5710-5720 Dolomite, light gray to tan, dense to finely crystalline - no visible porosity - slight yellowish-white fluorescence - no cut.
- 5720-5730 Dolomite as above, with abundant light gray limestone, also some dark gray, hard, dense limestone.
- 5730-5750 Limestone, gray to brown, dense to crystalline, some coarsely crystalline - locally fossiliferous - some dark gray to nearly black shale grading to impure dolomite (some of limestone still shows dull fluorescence).
- 5750-5770 Limestone, medium gray to dark gray, mostly dense, some crystalline, hard, appears to be slightly argillaceous locally - trace of dark gray to nearly black argillaceous dolomite.

- 5770-5810 Limestone, gray to tan to brown, dense to crystalline, locally fossiliferous.
- 5810-5840 Limestone, light gray to tan, mostly finely crystalline, some dense, locally fossiliferous, abundant white, soft, chalky limestone.
- 5840-5860 Limestone, light gray to white predominant, some tan - abundant white, chalky limestone. Some white, granular, dolomitic limestone showing slight yellowish-white fluorescence - no cut - probably mineral fluorescence.
- 5860-5870 Limestone, mostly medium gray to light gray, finely crystalline, some dense, abundant white, chalky ls.
- 5870-5910 Limestone, medium gray to light gray, dense to finely crystalline, locally fossiliferous - an occasional fragment shows a dull, yellow-white fluorescence - no cut - likely mineral fluorescence.
- 5910-5930 Limestone, light gray to medium gray to tan, dense to finely crystalline, some recrystallization - few coral fragments, fusulinids, crinoid stems.
- 5930-5940 Limestone, medium gray to tan, mostly dense, some finely crystalline. Much of tan, dense limestone gives a fairly bright yellow fluorescence, probably mineral, as denseness of rock virtually precludes hydrocarbon content.
- 5940-5970 Limestone, medium gray to light gray, dense to finely crystalline, some shows fluorescence as above, locally very fossiliferous - abundant white coral fragments - some white chalky limestone.
- 5970-5980 Limestone, medium gray to tan, dense, hard, platy.
- 5980-5990 Shale, brown and gray predominant, some maroon, pink and green, locally silty, some mottling (still abundant limestone in samples) Drilling time suggests top of Molas at 5982'.
- 5990-6000 Shale, as above, with considerable, white, medium grained, sub-rounded, calcareous sandstone - sand is predominantly clear quartz grains in a matrix of calcareous cement.
- 6000-6010 Shale & Limestone, shale as above; limestone is medium gray to light gray, finely crystalline, some white, chalky limestone.

- 6010-6020 Limestone, medium gray to light gray, some white, mostly dense, some chalky.
- 6020-6030 Limestone & Shale, limestone as above; shale is mostly brown and gray, some maroon, green, yellowish-green, lavender, etc.
- 6030-6080 Shale, gray, brown, maroon, green, purple, yellow, mostly blocky, some locally silty.
- 6080-6100 Shale, as above, with considerable light gray, dense, hard limestone.
- 6100-6130 Shale, vari-colored, with trace of light gray, hard, dense limestone - trace translucent chert 6020-6030.
- 6130-6150 Shale, brown, green, purple, gray, blocky to fissile, locally silty.
- 6150-6160 Shale, as above, with minor amount of light gray to white, dense limestone - trace chert.
- 6160-6180 Shale, as above, with trace limestone as above, trace chert.
- 6180-6190 Shale, vari-colored as above, with minor amount of white, dense to chalky limestone - trace anhydrite.
- 6190-6210 Limestone, light gray to nearly white, dense to crystalline, some chalky, not too hard. Top of Mississippian probably at 6183'.
- 6210-6240 Limestone, as above - much up-hole contamination in samples.
- 6240-6300 Limestone, light gray to nearly white, mostly crystalline, some dense, some chalky - locally slightly fossiliferous.
- 6300-6385 Limestone, light gray to white, mostly crystalline, locally very fossiliferous, soft, but no visible porosity or permeability. Trace of tan, translucent chert found locally.

DRILL STEM TESTS

DST # 1 5396-5448 (Straddle)  
Tool Open - 1 hour  
" Closed - 30 minutes  
Tool opened with good blow, increasing to strong blow  
in 5 minutes and continued throughout test.

Recovery: 90' WCM & 1020' of black sulphur water

IHP 2763#  
IFP 35#  
FFP 515#  
SIP 1715#  
FHP 2797#  
BHT 138°

DEVIATION (EASTMAN) SURVEYS

Depth	Deviation
703	1 degree
1218	1 "
1704	$\frac{1}{2}$ "
2217	$\frac{1}{2}$ "
3159	$1\frac{1}{2}$ "
3627	$1\frac{1}{2}$ "
3665	$1\frac{1}{2}$ "
3828	$1\frac{1}{2}$ "
4228	1 "
4741	1 "
5207	1 "
5739	1 "
6225	1 "

DAVIS OIL COMPANY

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

June 22, 1961

Re: #1 Chinle Wash  
SW SW Sec. 23-43S-21E  
San Juan Co., Utah

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

Dear Sir:

Enclosed herewith, for your approval, please find original and two copies of the Notice of Intention to Abandon on the above captioned well.

By carbon copy of this letter we are forwarding one copy of this report to the Oil & Gas Conservation Commission.

Yours very truly,

DAVIS OIL COMPANY

ORIGINAL SIGNED  
BY E. L. KARN, JR.

E. L. Karn, Jr.  
Production Manager

ELK-jt  
Encls.

cc- Oil & Gas Conservation Comm.  
c/o Mr. Cleon B. Feight

178

(SUBMIT IN TRIPLICATE)

Indian Agency Window Rock

	23		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee \_\_\_\_\_

Lease No. 14-20-603-389

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	<input checked="" type="checkbox"/>		

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

June 22, 19 61

#1 Chino Wash

Well No. / \_\_\_\_\_ is located 660 ft. from XXX line and 660 ft. from XXX line of sec. 23

SW SW Section 23      43S      21E      SLM  
(1/4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)

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

Ungraded Ground

The elevation of the ~~ground~~ ungraded above sea level is 5226.0 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)

Plugging Data:

- No. 1 - 6170' - 6200'      25 sx
- No. 2 - 5365' - 5400'      25 sx
- No. 3 - 5100' - 5130'      25 sx
- No. 4 - 2200' - 2230'      25 sx
- No. 5 - 0' - 12'      10 sx w/ surface plug with regulation dry hole marker cemented in.

NOTE: Verbal plugging instructions given by Mr. John Ward, 6-17-61.

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

ORIGINAL SIGN  
BY E. L. KARN, JR.

By \_\_\_\_\_

E. L. Karn, Jr.

Title Production Manager