

FILE NOTATIONS

Entered in NID File ✓
Location Map Pinned ✓
Card Indexed ✓

Checked by Chief
Approval Letter
Disapproval Letter ...

3-18-75

COMPLETION DATA:

Date Well Completed
OW..... WW..... TA.....
GW..... OS..... PA..... ✓

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log..... ✓
Electric Logs (No.) ✓
E..... I..... Dial I Lat..... GR-N..... Micro.....
SNC Sonic CR..... Lat..... MI-L..... Sonic.....
CSLog..... CCLog..... Others.....

TRUE OIL COMPANY

RIVER CROSS ROAD

CASPER, WYOMING
P. O. DRAWER 2360
PHONE 237-9301
82601

March 13, 1975

Mr. C. B. Feight
State Director
Division of Oil and Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Re: True Oil Company
State 43-16
Emery County, Utah

Dear Mr. Feight:

We wish to submit a notice of intent to drill a Kaibab test located in NE SE Section 16 - T24S - R7E. We have drilled several wells in Emery County in the past six months on federal leases.

Our program that was approved by the USGS and Mr. Darchett, consists of setting 100 feet of surface casing and 7" intermediate casing in the top of the Moenkopi. This is done in order to allow us to attempt to air drill the objective zone.

We were unaware that the state of Utah required an environmental assessment in the semi desert area where the location is to be. Location preparation has already commenced in order to be ready for the drilling contractor. We urgently need your approval as any delay will cost us \$2,350 per day stand by time.

We appreciate your consideration in this matter and hope for early approval.

Very truly yours,

TRUE OIL COMPANY

J. L. Fusselman
J. L. Fusselman
Operations Supervisor

JLF/dw

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.

29372

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

State

9. Well No.

43-16

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

Sec 16-T24S-R7E

12. County or Parrish 13. State

Emery

Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

True Oil Company

3. Address of Operator

P. O. Box 2360, Casper, WY 82601

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

2055' FSL and 660' FWL

At proposed prod. zone Section 16, T. 24 S., R. 7 E.

14. Distance in miles and direction from nearest town or post office*

15 miles south of Emery, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

16. No. of acres in lease

1920

17. No. of acres assigned to this well

40

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

N/A

19. Proposed depth

3600'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5565' Gr.

22. Approx. date work will start*

Rig availability

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
13-3/4"	10-3/4"	40#	100'	Cement to surface
6-1/4"	4-1/2"	9.5#	3600'	50 sacks

Operator proposes to drill a well employing rotary tools to test the Kaibab at approximately 3600'.

A 13-3/4" hole will be drilled to approximately 100' to permit running 10-3/4" 40#/ft. H-40 casing which will be cemented to the surface. The casing head will have a series 600 rating. 7" intermediate casing may be set at 2500'. After reaching total depth an appropriate set of electric logs will be run. The contractor will use water base mud for drilling fluid and air. In event commercial production is encountered, 4 1/2" casing will be set through the producing zone and properly cemented. The well will then be completed in accordance with good operating practice. Blow out equipment will consist of a series 900 double ram preventer, together with fill, kill and choke lines.

The maximum anticipated bottom hole pressure is expected to be approximately 2000 psi.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed J. L. Fusselman Title Operations Supervisor Date 3/14/75

(This space for Federal or State office use)

Permit No. 43-015-30038 Approval Date

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

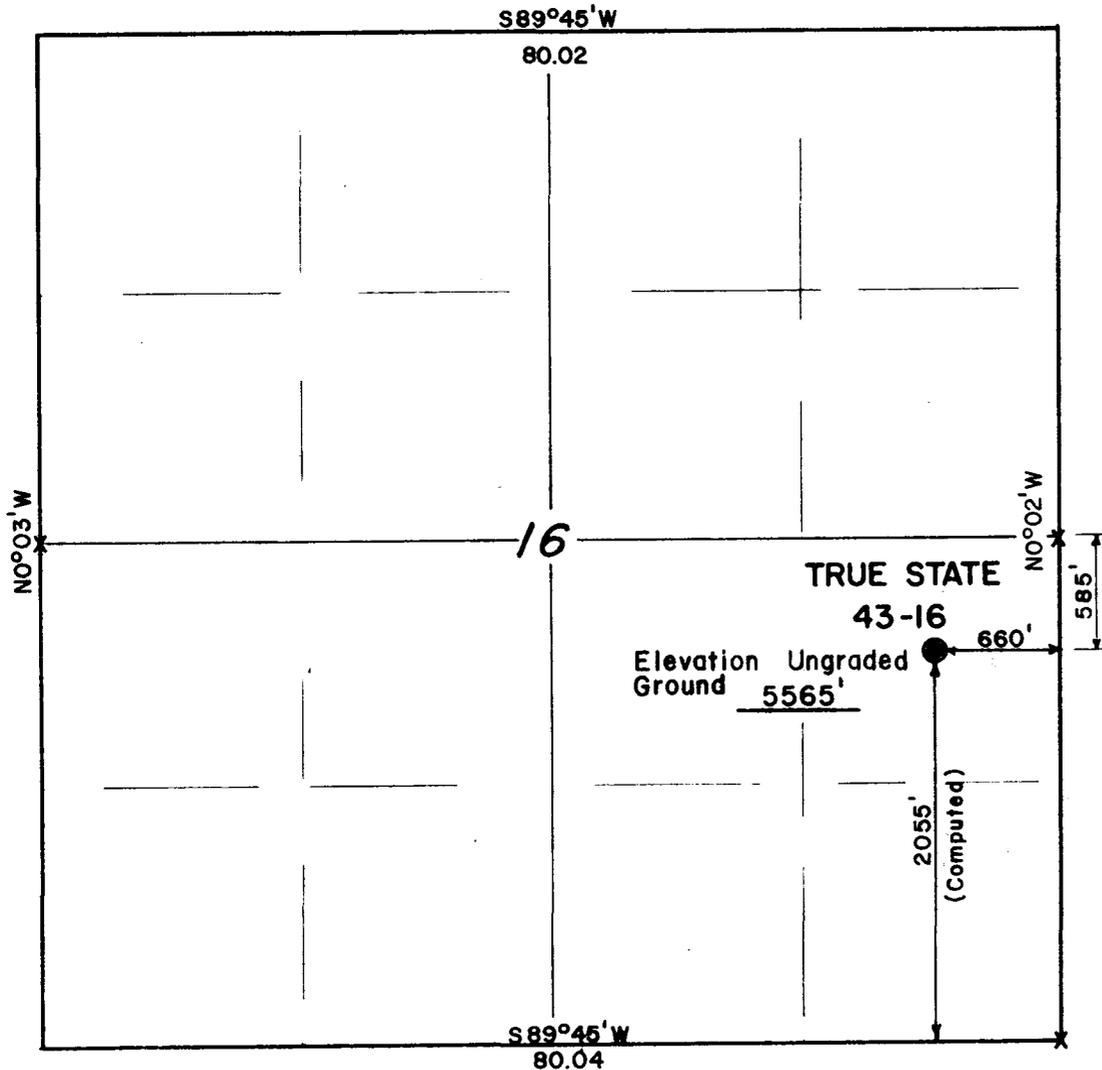
*Plot 2
Burd*

T24S, R7E, S.L.M.

PROJECT

TRUE OIL COMPANY

Well location, TRUE STATE 43-16,
located as shown in the NE 1/4 SE 1/4
Section 16, T24S, R7E, S.L.M.
Emery County, Utah



CERTIFICATE

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.

Richard J. Marshall
REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

X = Section corners located

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000	DATE 3/12/75
PARTY LDT WP	REFERENCES G.L.O. Plat
WEATHER COLD	FILE TRUE OIL CO.

ENVIRONMENTAL IMPACT REPORT
FOR FEDERAL LEASES
STATE

STATE OF UTAH
Lease, Serial No.: 29372
True State No. 43-16
NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 16, T24S, R7E
Emery County, Utah (10-01-1990)

The following data is submitted herewith to supplement Sundry Notices Report for Application to Drill the captioned well:

1. Existing roads showing exit from main highway (shown on Exhibit "A").
Remarks: _____
2. Planned access roads are shown on Exhibit "A". (Give brief explanation of any cuts, fills, culverts and cattleguards required.) Existing access road starts at a point in the SW $\frac{1}{4}$ of Section 17 and continues in an Easterly direction for a distance of 2.1 miles to a point 150' North of the location -- some blading will be required on this road. No appreciable cuts or culverts will be needed.
3. Location of wells. (Any producing wells or dry holes of significance in the immediate area will be shown on Exhibit "A") Remarks: _____
4. Lateral roads to well locations in area. (If any, they will be shown on Exhibit "A") _____
5. Contemplated location of tank battery. If needed locate battery on higher ground approximately 200' Southeast of location.
6. Location and type of water supply. (Show location of water, distance from location and owner's name.) Water source may be adequate from a reservoir approximately 2.5 miles Southwest of location. The tool-pusher will determine water source within the next few days.
7. Waste material - ~~all waste material and trash will be disposed of in burn pit.~~ All other debris which cannot be burned will be hauled away or buried in the reserve pit. No burning will be allowed and a chemical toilet will be used.
8. Location of camps. None needed.
9. Location of airstrips. None needed.
10. Location layout (size of location, position of rig, mud tanks, reserve pits, etc.) Exhibit "B" is attached showing relative position of rig and accessory equipment. Face rig to Northeast with pit to Northwest. Loc. size: 250' long X 150' wide. Pit size: 100' square by 5' deep.
11. Plan for restoration of surface: Topsoil will be stockpiled and cuts will be backsloped and held to a 3 to 1 grade. After operations are completed, water bars will be constructed as required, all debris will be cleaned up and the burn pit will be backfilled and leveled. Mud pits will be fenced as required until dry enough to be backfilled, leveled and then the topsoil will be distributed over the area. The site will be seeded with a good quality seed, the mixture of which will meet U.S.G.S. or B.L.M. specifications. Arrangements for use of the surface have been made with the surface owner: The State of Utah. Seeding and seeding mixture will also meet state of Utah requirements.
Special requests by landowner relative to restoration of surface: Restore surface to its original condition as much as is reasonably possible.
12. General description of topography, vegetation and other aspects of the area. (Indicate percents of different kinds of vegetation and give the depth and location of any required cuts.) Terrain slopes generally from the South to the North. There will be an approx. 9' cut on South side of location. Pasture land -- sparse vegetation.
13. Livestock and wildlife protection. All precautions will be taken to protect livestock and wildlife from damage. Any problems concerning livestock and wildlife will be reported to the proper authorities.

Operator, TRUE OIL COMPANY

By: J. W. Taylor
J. W. TAYLOR

LENGTH OF LOCATION 250'

120'

130'

Ø TO FRONT 130'

Ø TO BACK 120'

Ø TO TANK CUT 14'

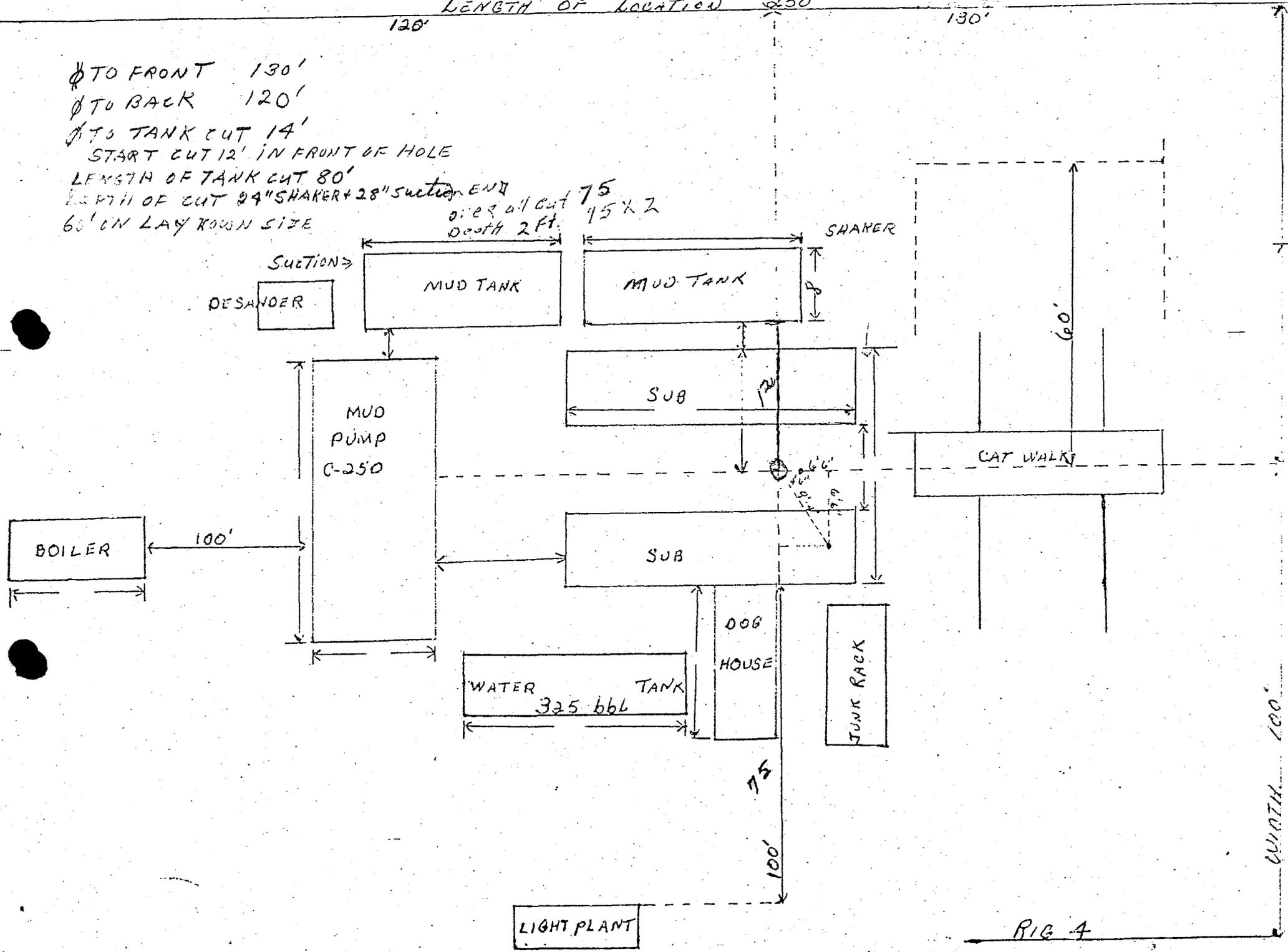
START CUT 12' IN FRONT OF HOLE

LENGTH OF TANK CUT 80'

LENGTH OF CUT 24" SHAKER + 28" suction END

60' IN LAY DOWN SIZE

oil cut 75
15 x 2
depth 2 ft.



RIG 4

EXHIBIT 'B'

FOREST

SAGE FLAT #852

NELSON MTN 9061

SEVIER COUNTY SHEET NO. 2

39° 00'

T 21 S

T 22 S

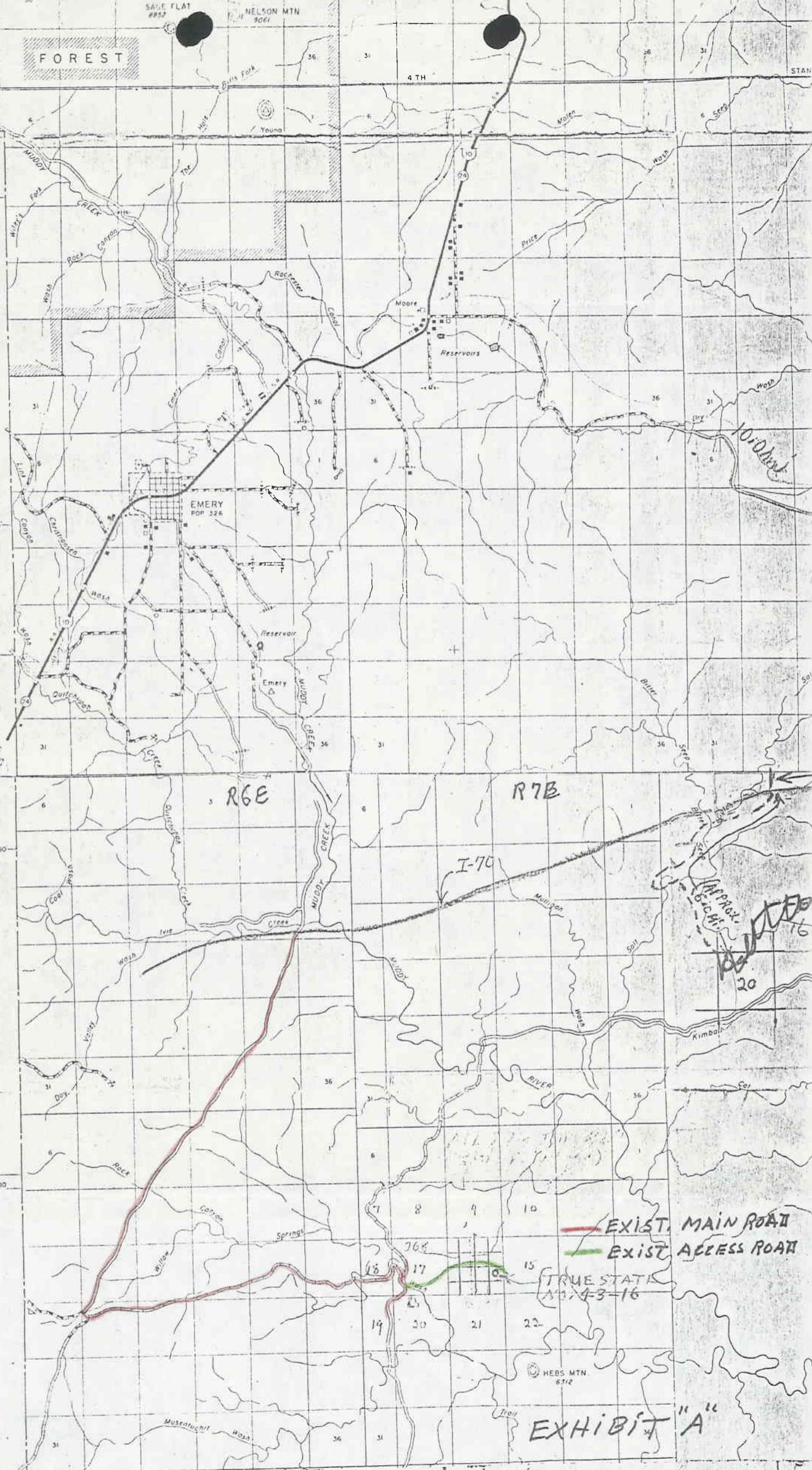
200,000 CZ

T 23 S

38° 45'

T 24 S

150,000 CZ



R6E

R7E

I-70

— EXIST. MAIN ROAD
 — EXIST. ACCESS ROAD

TRUE STATE NO. 43-16

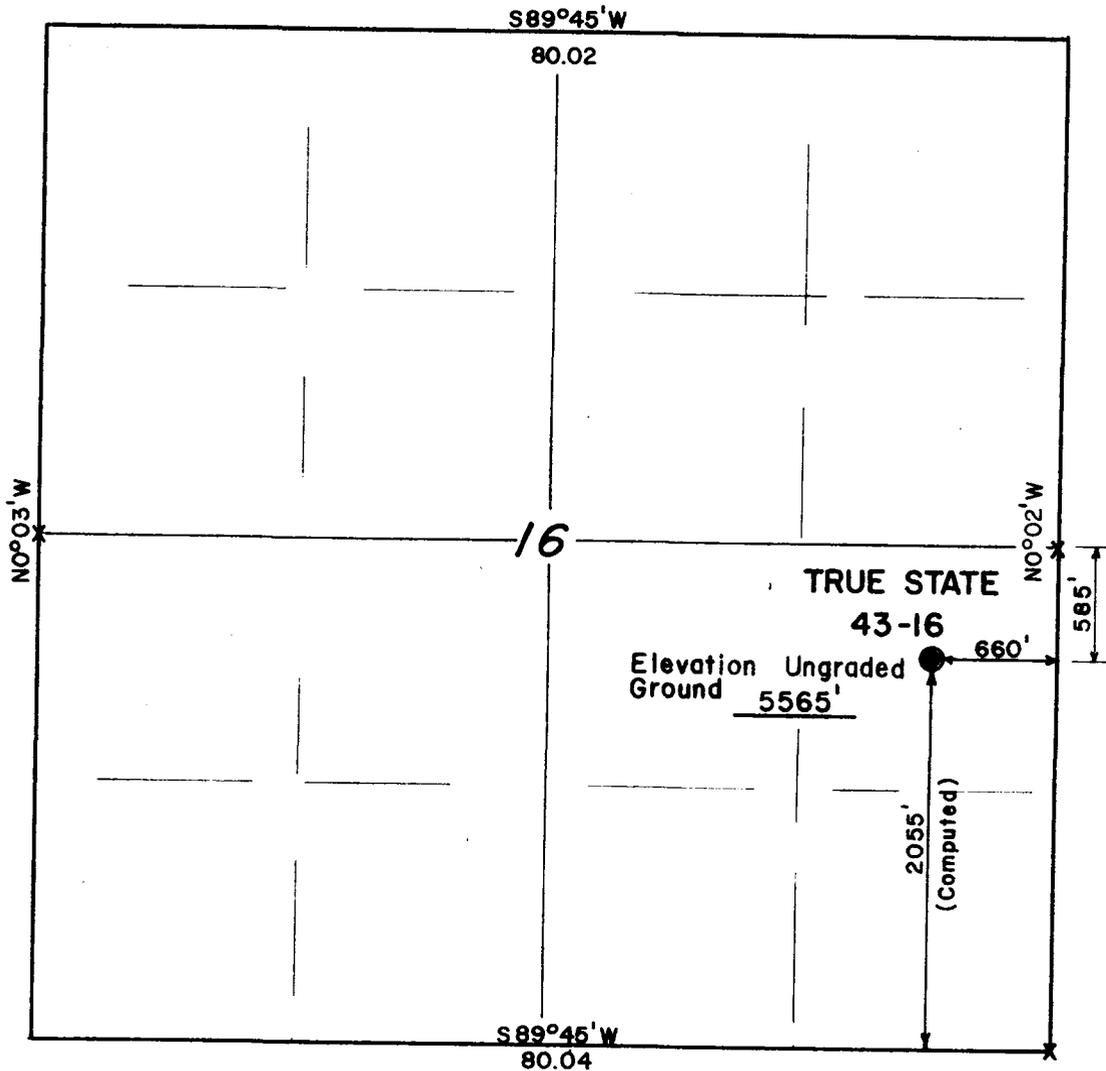
HEBS MTN 6312

EXHIBIT "A"

112-113-114

App. No. 16
 20

T24S, R7E, S.L.M.



X = Section corners located

PROJECT

TRUE OIL COMPANY

Well location, TRUE STATE 43-16,
located as shown in the NE 1/4 SE 1/4
Section 16, T24S, R7E, S.L.M.
Emery County, Utah



CERTIFICATE

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.

Richard J. Marshall

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 9 - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000	DATE 3/12/75
PARTY LDT WP	REFERENCES G.L.O. Plat
WEATHER COLD	FILE TRUE OIL CO.

March 18, 1975

True Oil Company
Box 2360
Casper, Wyoming 82601

Re: Well No. State #43-16
Sec. 16, T. 24 S, R. 7 E,
Emery County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Said approval is, however, conditional upon forwarding a surveyor's plat of the location to this office as soon as possible.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT - Director
HOME: 466-4455
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-015-30038.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sw
cc: Division of State Lands

STATE OF UTAH
DIVISION OF OIL & GAS CONSERVATION
DEPARTMENT OF NATURAL RESOURCES

PLUGGING PROGRAM

NAME OF COMPANY True Oil
WELL NAME Fed. 43-16 API NO: _____
Sec. _____ Township _____ Range _____ County _____

Verbal Approval Given to Plug the Above Referred to Well in the Following Manner:

Total Depth: 3580' Kaibah

Casing Program:

17" to 3000'
pull 1000' of casing
10 3/4" @ 135'

Formation Tops:

Carmel - 360'
Navajo - 900'
Kayenta - 1773'
Chinle - 2280'
Shinarump - 2440'
Moenkopi - 2563'
Sinbad - 3225'
Lower Moenkopi - 3344'
Kaibah - 3535'

Plugs Set as Follows:

100' plug @ bottom of Kaibah
75' " " " of casing
" " " across base
" " " across top of casing
plug from 400-300
surface plug w/ regulation marker

Date: 4-15-75 Signed: Cherita Wilson

OIL & GAS CONSERVATION COMMISSION

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole</p> <p>2. NAME OF OPERATOR True Oil Company</p> <p>3. ADDRESS OF OPERATOR P.O. Box 2360, Casper, WY 82602</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2055' FSL and 660' FEL, Section 16, T 24 S, R 7 E.</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. 29372</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME -</p> <p>7. UNIT AGREEMENT NAME -</p> <p>8. FARM OR LEASE NAME State</p> <p>9. WELL NO. 43-16</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA Sec. 16-T24S-R7E</p> <p>12. COUNTY OR PARISH Emery</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO. 43-015-30038</p>	<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5565' Gr., 5575'KB</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

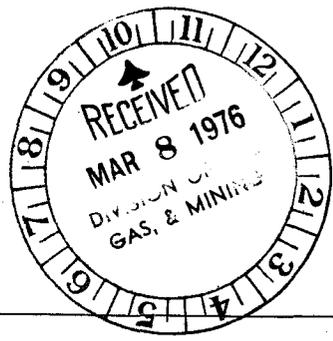
17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

Total Depth - 3611'. There were no cores or Drill Stem Tests. Electric logs to total depth. No shows of oil or gas were encountered and verbal permission was obtained to plug and abandon as follows:

Plug #1: 35 sacks, 3610-3510'.
 #2: 25 sacks, 3050-2975'.
 #3: 25 sacks, 1460-1585'.
 #4: 30 sacks, 950-850'.
 #5: 25 sacks, 180-105'.
 #6: 10 sacks at surface.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
 DATE: March 8, 1976
 BY: [Signature]

When the above is completed and the location ready for final inspection, your office will be notified.



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

SIGNED [Signature] TITLE Manager DATE 3/4/76.
 (This space for Federal or State office use)
 J. D. Milliken

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole</p> <p>2. NAME OF OPERATOR True Oil Company</p> <p>3. ADDRESS OF OPERATOR P.O. Box 2360, Casper, WY 82602</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2055' FSL and 660' FEL, Section 16, T 24 S, R 7 E.</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. 29372</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME -</p> <p>7. UNIT AGREEMENT NAME -</p> <p>8. FARM OR LEASE NAME State</p> <p>9. WELL NO. 43-16</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., E., M., OR BLK. AND SUBVY OR AREA Sec. 16-T24S-R7E</p> <p>12. COUNTY OR PARISH 13. STATE Emery Utah</p>
<p>14. PERMIT NO. 43-015-30038</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5565' Gr., 5575'KB</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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

The above subject has been plugged and abandoned as follows:

Plug #1: 35 sacks, 3610-3510'.
 #2: 25 sacks, 2050-2975'.
 #3: 25 sacks, 1460-1585'.
 #4: 30 sacks, 950-850'.
 #5: 25 sacks, 180-105'.
 #6: 10 sacks at surface.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: March 27 1976
BY: P. h. Sussall

The above locations has been cleaned and seeded and is now ready for final inspection.

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

SIGNED J. D. Milliken TITLE Manager DATE 3/4/76.

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

29372

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other

2. NAME OF OPERATOR
True Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2360, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2055' FSL and 660 FEET
At top prod. interval reported below Section 16, T 24 S, R 7 E.
At total depth



7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

State

9. WELL NO.
43-16

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 16-T24S-R7E

14. PERMIT NO. 43-015-30038
DATE ISSUED 3/18/75

12. COUNTY OR PARISH Emery
13. STATE Utah

15. DATE SPUNDED 3/30/75
16. DATE T.D. REACHED 4/16/75
17. DATE COMPL. (Ready to prod.) -
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5565' Gr., 5575' KB
19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 3611'
21. PLUG, BACK T.D., MD & TVD -
22. IF MULTIPLE COMPL., HOW MANY* -
23. INTERVALS DRILLED BY -> ROTARY TOOLS 0-3611' CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* N/A
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN IES, GR-DILL, GR-SNP, GR-Density.
27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"	40#	135'	13-3/4"	85 sacks	None

29. N/A LINER RECORD					30. N/A TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. N/A ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
N/A		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* N/A PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Geological Well Report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED J. D. Milliken TITLE Manager DATE 3/4/76

*(See Instructions and Spaces for Additional Data on Reverse Side)

PLUGGING INSTRUCTIONS

Plugging instructions were received from the State Oil & Gas Commission from Mr. Feight by telephone at 8:30 a.m. on April 15, 1975 59 W. K. Reaves.

Plug #1 100' plug, 3611' to 3511'.
Plug #2 75' plug, across shoe of 7" casing.
Plug #3 75' plug, across (in and out) stub of 7" casing.
Plug #4 100' plug, 950' to 850' across base of Carmel formation.
Plug #5 75' plug, across shoe of 10 3/4" casing.
Plug #6 25' plug, top of surface casing and regulation marker installed.

BIT RECORD

No.	Size	Company	Type	Depth	Out Feet	Hours	Deviation
1	8 3/4"	HTC	J-33	702'	567'	33 3/4	2°
2	8 3/4"	SEC	M-88	1650'	948'	43 1/2	
3	8 3/4"	SMITH	F-5	2577'	927'	63 3/4	
RR-4	8 3/4"	HTC	J-33	2978'	401'	44 3/4	
RR-2	8 3/4"	SEC	M-88	3000'	22'		
5	6 1/8"	HTC	J-55	3611'	611'		

GEOLOGICAL SUMMATION

The True Oil Company #43-16 State was drilled to a total depth of 3,611 feet in 18 days. Intermediate 7" casing was set at 3,000 feet, with 85 sacks of cement, 437 feet into the Moenkopi formation. No change in lithology was noted in samples from the top of the Chenle formation at 2290 feet to 3,000 feet. Schlumberger IES log was run to establish correlation. No shows were encountered to 3,000 feet.

Air drilling was commenced under the 7" casing at 3,000 feet. Good samples were obtained during drilling. No shows of gas or oil were encountered in the Moenkopi or Sinbad formations.

Drilling was stopped at 3,380 feet and air shut off and hole let open for 30 minutes to test for gas or oil. No shows were noted.

Shows were noted in samples at 3,480 feet to 3,580 feet in dolomite, white to light grey to brown, fine grained to dense, tight, no porosity or permeability was indicated.

Drilling was again stopped at 3,520 feet and the air shut off to test. No show was noted and no fluid (water or oil) entered the hole as the hole commenced dusting as soon as drilling was resumed. The hole was drilled to 3,580 feet and logged. The Kiabab top was established at 3,534 feet, by samples it was picked at 3,480 feet.

The hole was drilled to 3,611 feet encountering the Coconino (White River) at 3,587 feet with a small water flow. Drilling proceeded with mist drilling. The hole was then plugged and abandoned.

Wallace K. Reaves
Wallace K. Reaves
Consulting Geologist
P.O. Box 2595
Casper, Wyoming 82601

SAMPLE DESCRIPTIONS

30' samples 130' to 1600'
10' samples 1600' to TD.

In Entrada on drilling out of surface.

130- 280' SILTSTONE, red, calc, trace grey, v clayey, calc.
280- 340' A/A.

Top Carmel 340' Samples, E log 360'

340- 370' SHALE, lt grey, calc.
370- 400' ANHYDRITE, grey-white-clear, some SHALE a/a.
400- 430' SHALE, lt grey, brown, calc, anhydritic, ANHYDRITE,
brown, grey, white.
430- 460' SHALE, grey, calc, soft, LIMESTONE, grey, firm to hd.
460- 520' VPS, shale, siltstone, anhydrite, ls, a/a.
520- 550' SHALE, grey, soft, calc, anhydrite, white, clear.
550- 580' SHALE, grey, soft, v calc, poss some ARG LS, tr
anhydrite, a/a.
580- 730' LIMESTONE, grey to grey brown, dense, hard, no poro
or perm, some shale, grey, soft, calc, tr anhydrite.
730- 790' LIMESTONE, A/a and some w/faint outlines of pellets
or oolites and fossil frags, no poro or perm.
790- 820' ANHYDRITE, white, grey, pink, SILTSTONE, pink,
tan, brn, calc.
820- 850' A/a increase in siltstone.
850- 880' LIMESTONE, green, yellow, red, brns, dense, no show,
no poro or perm.
880- 910' SANDSTONE, fg, clay filled, well cemented, calc, no
poro or perm, no show, subrd, buff to whitish pink.
910- 940' SANDSTONE, f-mg, white to pink, to red, well cemented,
poorly sorted, subround, no show, SHALE & LS, grey.
940- 970' SANDSTONE, a/a, equal parts LS & SHALE, a/a.
970-1000' SANDSTONE a/a, less LS & SHALE.
1000-1030' A/a w/siltstone, red.
1030-1060' SANDSTONE, f-m, poorly sorted, subrd, well cemented,
poor poro or perm, no show, white? pink, LS, grey,
dense, hd, SILTSTONE, red.

Top Navajo 1050' Samples, E log 900'

1060-1180' SANDSTONE, tan to pink, fine-med, poorly sorted,
subrd, well cemented, n.s., LS, grey, dense.
1180-1330' A/a.
1330-1360' A/a.
1360-1480' SANDSTONE, a/a, LS, grey, dense, SILTSTONE, red.
1480-1600' SANDSTONE, a/a, lt tan to pinkish wh, f-m, poorly
sorted, subrd, n.s. tr grey LS, & red SILTSTONE.
1600-1700' SANDSTONE, a/a, becoming more white less tan and
pink in lower portion.
1700-1750' A/a.
1750-1780' A/a.

Top Kayenta 1780' Samples, E log 1773'

1780-1800' SANDSTONE, grey green, glauconitic, fg, subang, green
color due to abund of glauconite, SHALE, green, soft.

30' Samples 1800-1950'

1800-1830' SANDSTONE, a/a, tr SILTSTONE & SHALE, red, conglomeratic.
1830-1860' SANDSTONE, fg, subang, white, pink, red, n.s., tr
glauconite, SHALE, red.
1860-1890' SANDSTONE, red, pink, fg, subang, SILTSTONE & SHALE,
red.

Top Wingate 1900' Samples, E log 1890'

1890-1920' SANDSTONE, f-m, subang-ang, red, purplish, well
cemented, n.s., SHALE, green, grey green.
1920-1950' A/a.
No samples 1950-1980'
1980-1990' SANDSTONE, f-m, red, pink, purplish, subang, n.s.
silty, SHALE, tr green, grey green.
1990-2050' A/a.
2050-2100' A/a, ss becoming mostly fg.
2100-2290' A/a.

Top Chinle 2290' Samples

2290-2300' SHALE, grey brn, purplish, hd, silty, ss a/a.
2300-2310' SHALE, a/a.
2310-2340' SHALE, a/a, SILTSTONE, red & purplish.
2340-2350' SHALE & SILTSTONE, a/a, SANDSTONE, fg, subang, red
brn, purplish cast, n.s.
2350-2400' SHALE & siltstone, a/a.
2400-2430' SHALE, red brn, tr purp, grey green, hd, SILTSTONE,
red, yellow, brn w/ purple, siltstone, grades to
fg, ss in part, some sli calc.

Top Shinarump 2440' E Log

2430-2440' SHALE & SILTSTONE a/a. Sandstone, f-crse, ang-subang,
well cemented, poorly sorted, calc, n.s., white to
purple, reds and pinks.
2440-2470' A/a.
2470-2480' SHALE, red brn, purp, yellow, grey, green, SANDSTONE,
a/a.
2480-2490' SHALE, YELLOW, red brn, purple, grey green, soft to
firm.
2490-2520' SHALE, yellow, green, rd brn, purple, soft to firm.
2520-2530' SHALE, a/a.

Top Moenkopi 2563' E Log

2530-2570' A/a
2570-2630' A/a.
2630-2640' A/a w/grey green calc siltst, sli anhydr.
2640-2650' SHALE, a/a but mostly red brn.
2650-2760' A/a.
2760-2770' SHALE, red brn, anhydritic, grey green, tr yellow.
2780-2920' A/a.
2920-2930' SHALE, red brn, yellow, purp, soft to firm.
2930-2940' A/a.
2940-2950' SHALE, a/a, tr chert, orange red and blue, tr SILTSTONE,
lt grey, calc, hd, tite.
2950-2960' Shale, a/a. CHERT nodules w/quartz overgrowths, pale
green, SHALE, lt grey SILTSTONE, calc.
2960-2970' SHALE, a/a, CHERT, tr, pink-white-orange, SANDSTONE,
vf-f, tan, well sorted, tite, mod firm, n.s. micaceous.
2970-2980' A/a.
2980-2990' A/a.
2990-3000' SHALE, red, yellow, purple, CHERT, tr, orange,
SANDSTONE, vf-f, lt grey, tan to orange, well
to mod sorted, micaceous in part, tite, firm, n.s.,
some loose rounded quartz grains.
3000' Circulate Samples
30 min. A/a.
60 min. A/a.
Trip to run correlation log
7" casing set at 3,000' with 75 sacks.

- 3000-3010' SHALE, redish brn, micaceous.
3010-3020' SHALE, redish brn, micaceous in part, tr grey green, n.s.
3020-3030' SHALE, red brn, grey green, red brn, micaceous in part, sli calc, n.s., micaceous shale grades to micaceous siltstone.
3030-3040' SHALE, a/a w/tr purple .
3040-3050' A/a.
3050-3060' SHALE & SILTSTONE, red brn, grey green, micaceous, calc, n.s.
3060-3090' SILTSTONE to VVF SANDSTONE, red brn, micaceous in part, firm, n.s. or fluor, mod sorted, subang, well cemented, sli calc.
3090-3100' SHALE, red brn, tr grey green, micaceous, sli calc.
3100-3150' SHALE, red brn, grey green, calc, micaceous, SILTSTONE red brn, calc, firm, micaceous.
3150-3170' SILTSTONE, red brn, micaceous, calc, n.s., tr grey green.
3170-3190' A/a.
3190-3200' A/a, becoming lighter in color in part, nearly white.
3200-3210' SILTSTONE, a/a, SHALE, red brn, micaceous.
3210-3220' SILTSTONE, a/a, SHALE, red, brn, grey green to lt grey, micaceous.

Top Sinbad 3225'

- 3220-3230' LIMESTONE, grey to lt grey, dense to fine, granular, sandy in part, no fluor or cut, n.s.
3230-3240' Limestone, a/a w/grey brown SILTSTONE, micaceous, firm, n.s.
3240-3250' SILTSTONE, red brn, micaceous, firm, v calc, SHALE, red brn, LIMESTONE, a/a.
3250-3260' LIMESTONE, grey, lt grey, buff, dense, hd, no fluor, no cut no show.
3260-3270' A/a.
3270-3280' LIMESTONE, grey to near white, dense, hd, no poro, no perm, ns.
3280-3300' A/a
3300-3320' A/a.
3320-3330' A/a, w/tr red SHALE.
3330-3340' LIMESTONE, grey to white, dense, hd, tite, n.s.
SHALE & SILTSTONE red brn, micaceous, v calc, firm.

Top L. Moenkopi 3335'

- 3340-3350' SHALE & SILTSTONE red brn, micaceous, sli to v calc, firm, n.s.
3350-3360' SILTSTONE & SHALE, red brn, micaceous, n.s., firm, calc.
3360-3370' SILTSTONE & shale, a/a, LIMESTONE, white to light grey-dense, hd, n.s.
3370-3380' SILTSTONE & SHALE, red brn, micaceous.

Shut down air for 30 min. to test for gas, no indication of gas or oil on resuming air and drilling.

- 3380-3420' A/a.
3420-3430' A/a w/grey green shale.
3430-3440' a/a w/ grey green SHALE.
3440-3450' A/a.
3450-3460' A/a w/50% grey green SHALE.
3460-3470' SHALE, grey green, buff, hd dense, calc, pyritic.
3470-3480' SHALE, grey green, pyritic, red brn.

Top Kiabab 3480' Samples, E log 3534'

- 3480-3490' DOLOMITE, grey to brn, fg, tite, no poro or perm, pyritic, ft dull yell fluor in part, milky fluor on cut, brn residue on evaporation.
3490-3500' DOLOMITE, wh-gry, dense to fg, pyritic, some dull yell fluor, slow Milky yell fluor on cut, poor poro and perm.

3500-3520' DOLOMITE a/a, becoming more pyritic, some free pyrite nodules, tite, no poro or perm.

Shut off drilling and air at 3520' for 30 min. to test for gas and oil, had gas odor at blooey line while drilling, no flare of gas or oil. After 30 min. no flare of gas on starting air and drilling, still had gassy odor.

3520-3530' DOLOMITE, grey, pyritic, dense to fg, dull yell fluor, milky fluor on cut.

3530-3540' DOLOMITE, wh-brn, good yell fluor, slow milky fluor on cut, spotted brn stain, no apparent poro or perm, dense to vfg, CHERT, blue white.

3540-3550' A/a.

3550-3560' A/a, less stain.

3560-3580' A/a.

3580-3590' No Sample, clearing hole with mist to drill ahead.

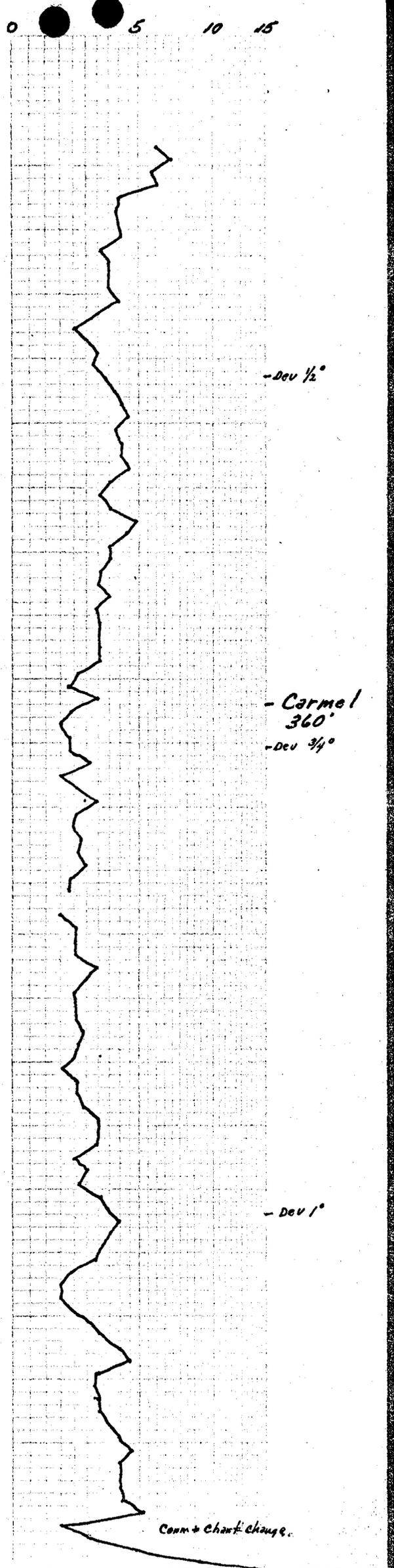
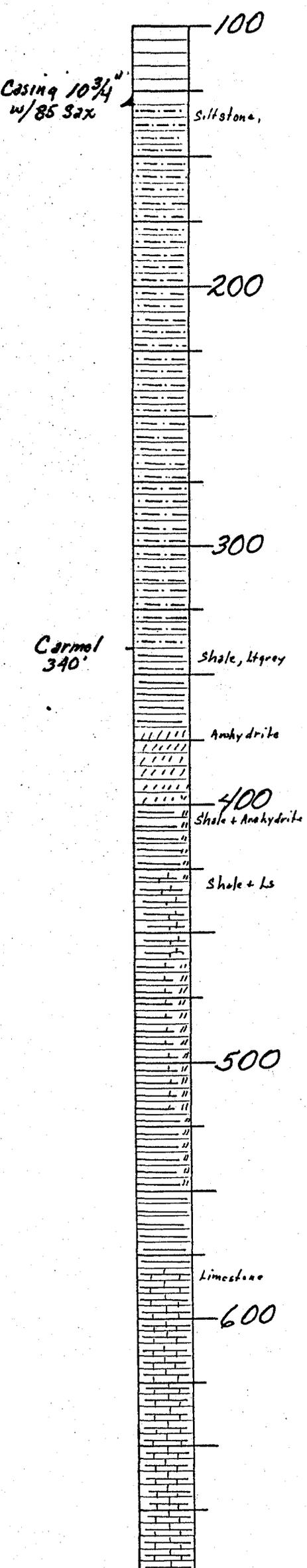
Top Coconio 3,587'

3590-3600' SANDSTONE, vfg, wh, sugary texture, subang, fri, chert, white, loose quartz grains, pyrite.

3600-3610' SANDSTONE, vfg, wh to lt grey green, cherty, blue white, pyrite xls, sand, v fri, loose med-crs quartz grains, subang to subrd, no show, calc in part.

3611' Circ. Samples.

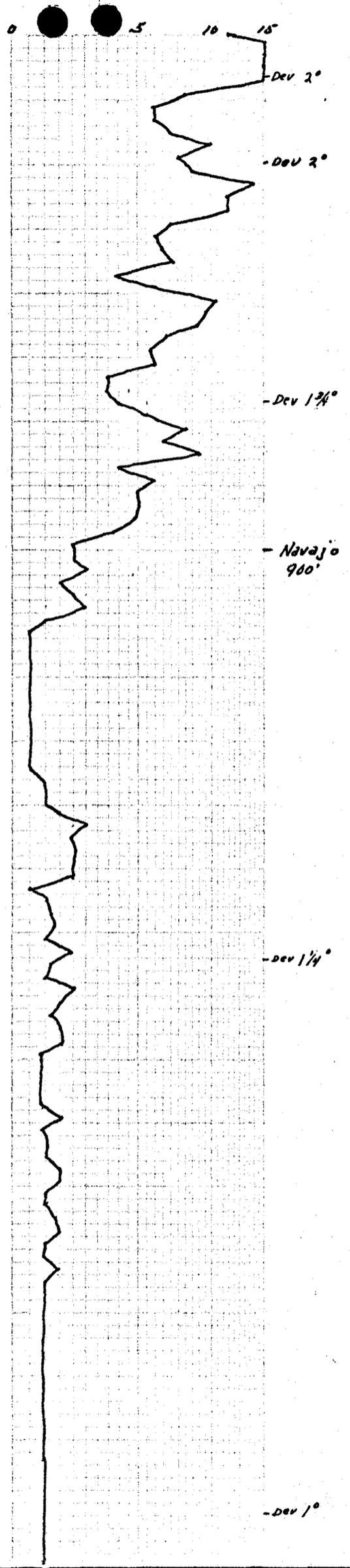
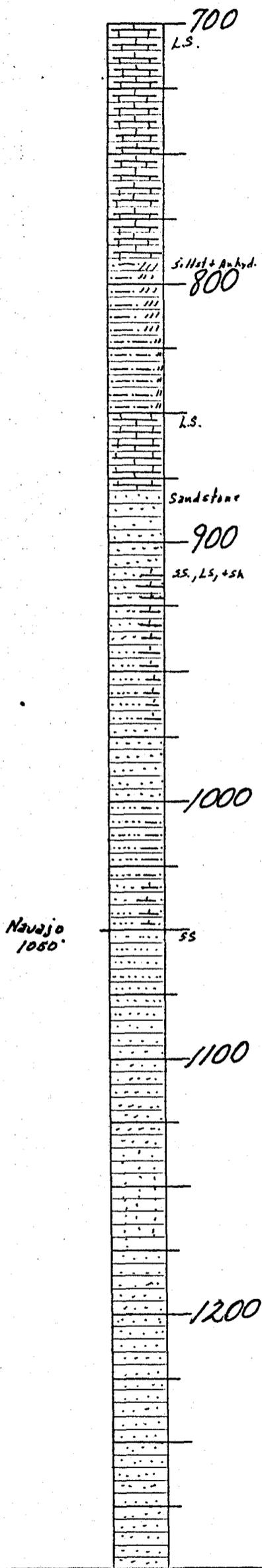
30 min. SANDSTONE, a/a.



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.) 5' Aug By Penetration	FORMATIONS
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OPERATOR TRUE OIL CO. WELL 43-16 STATE LOCATION NE SE 16 ELEVATION 5575 KB T24S R7E

Wallace K. Reaves, PETROLEUM GEOLOGIST, CASPER, WYOMING



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.) 5' Avg	FORMATIONS By Penetration
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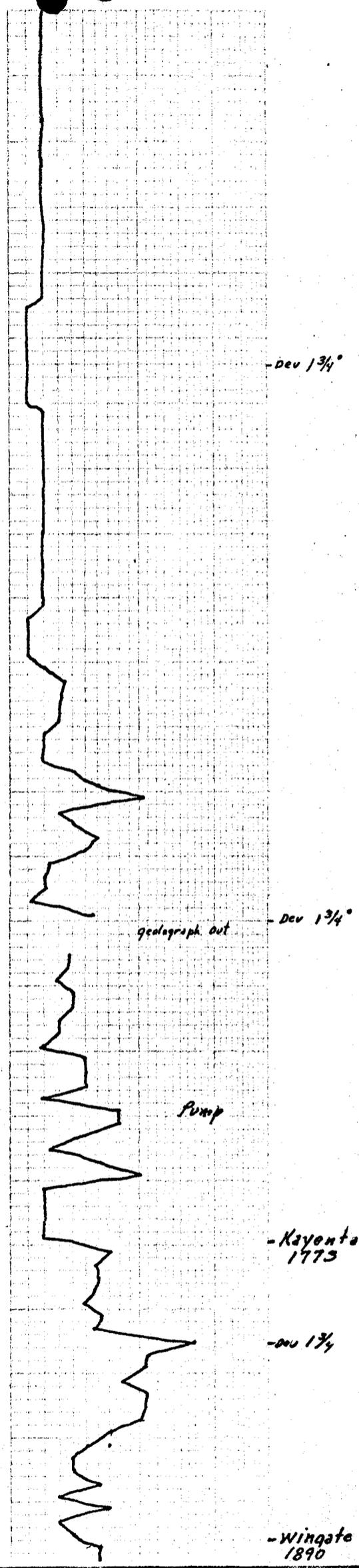
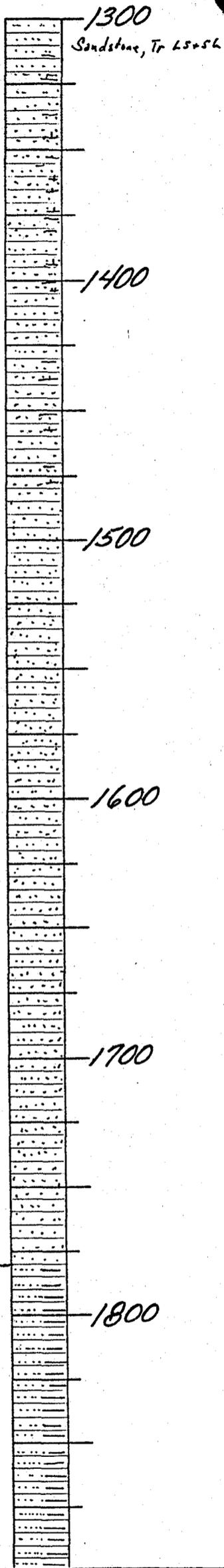
OPERATOR TRUE OIL CO.

WELL 43-16 STATE

LOCATION NE SE 16 ELEVATION 5575 KB
T245 RTE

Wallace K. Reaves,

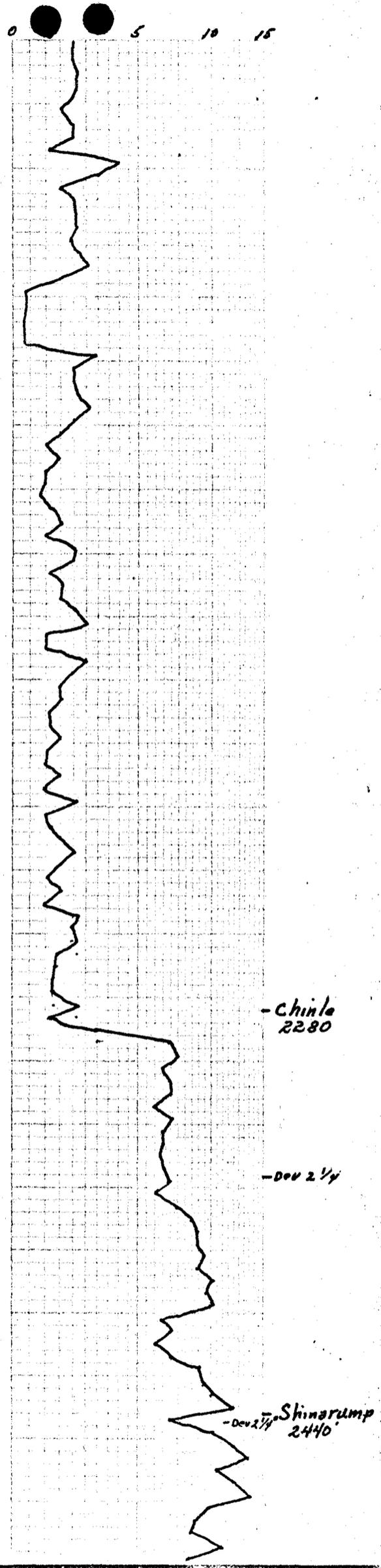
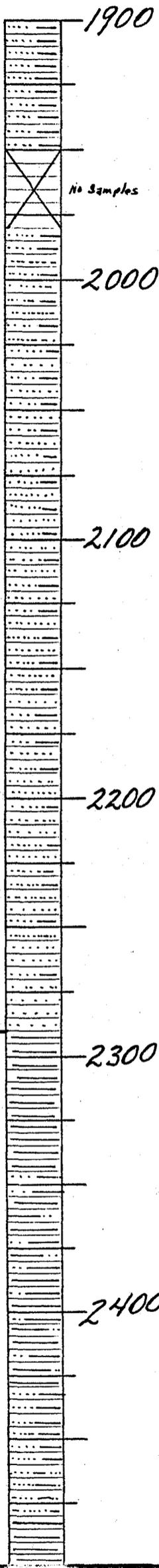
PETROLEUM GEOLOGIST, CASPER, WYOMING



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.) 5' Aug	FORMATIONS By Penetration + ELOG
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OPERATOR TRUE OIL CO. WELL 43-16 STATE LOCATION NE SE 16 ELEVATION 5575 KB
T24S R7E

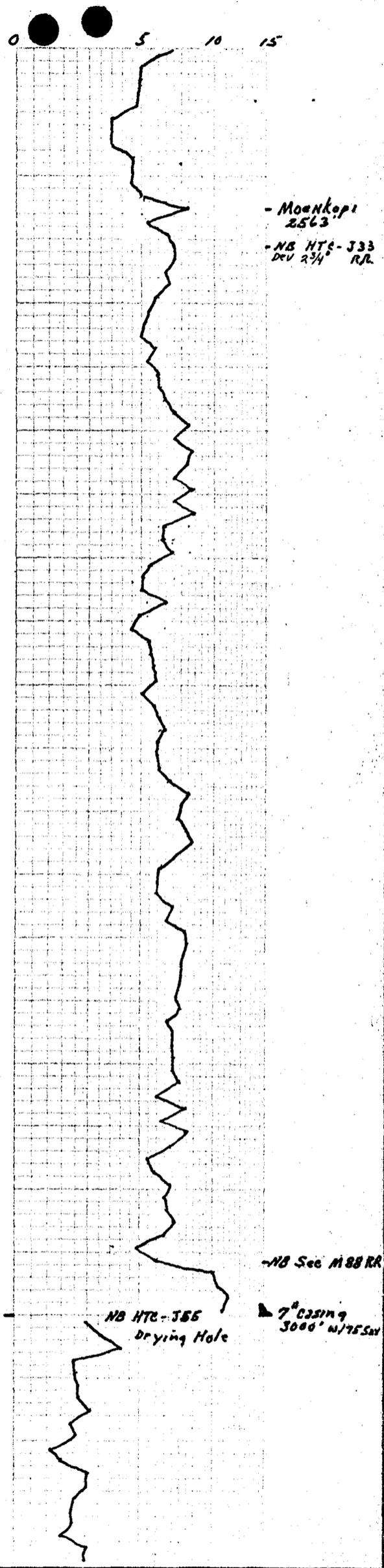
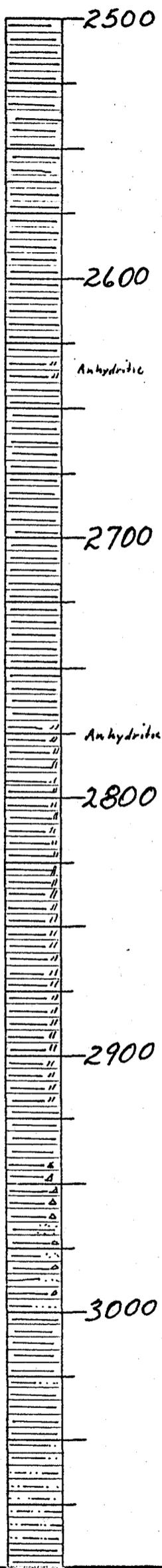
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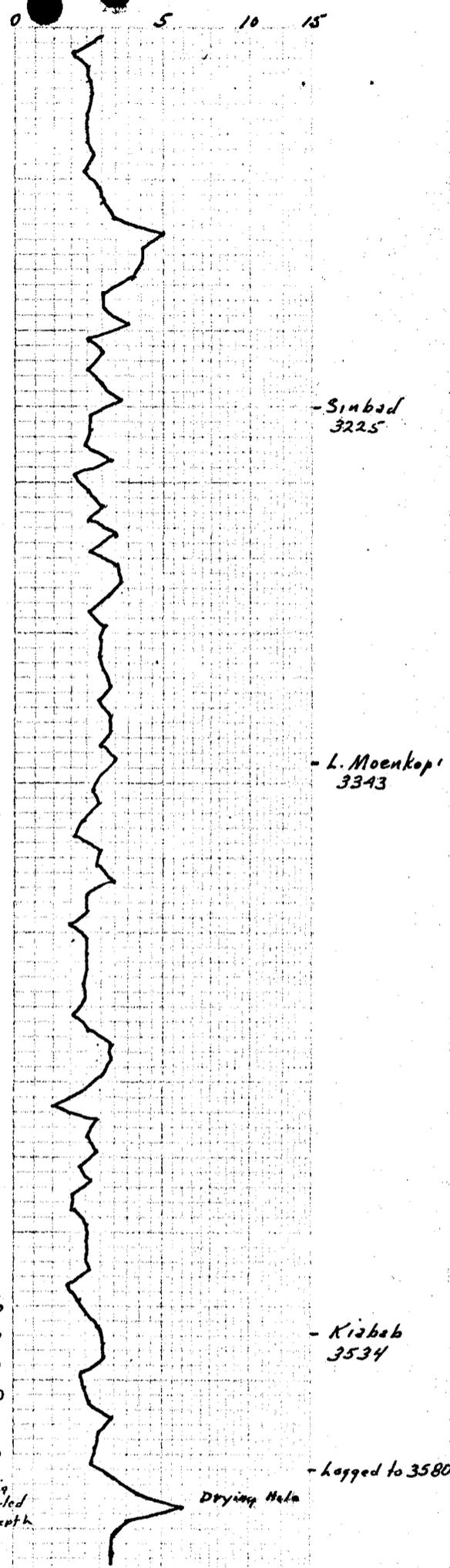
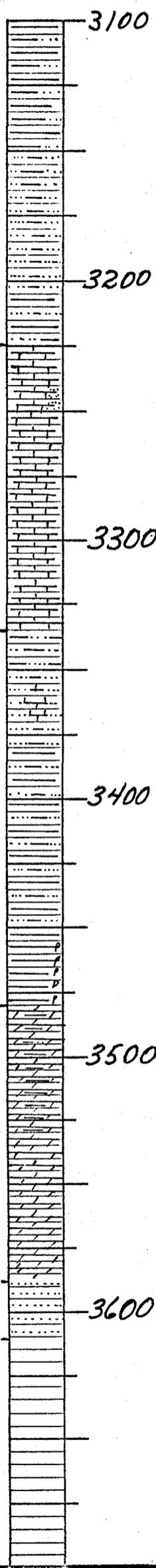
FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.)	FORMATIONS By Penetration
					5' Av. By Penetration	

OPERATOR TRUE OIL CO. WELL 43-16 STATE LOCATION NESE 16 ELEVATION 5575 KB T24S R7E

Wallace K. Reaves PETROLEUM GEOLOGIST, CASPER, WYOMING



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.)	FORMATIONS By Penetration
OPERATOR TRUE OIL Co		WELL 43-1/6 STATE		LOCATION NE SE 16 TRAS RTE		ELEVATION 5575 KB
Wallace K. Reaves,		PETROLEUM GEOLOGIST, CASPER, WYOMING				



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS <small>0 = Poor oil show</small>	PENETRATION RATE (min/ft.) 5' Avg	FORMATIONS By Penetration <small>+ E Log</small>
OPERATOR	TRUE OIL CO	WELL	43-16 state	LOCATION	NE SE 1/4 ELEVATION 5575 KB T 24S R 7E	
Wallace K. Reaves, PETROLEUM GEOLOGIST, CASPER, WYOMING						

GEOLOGICAL WELL REPORT



True Oil Company
 #43-16 State
 2055 FSL, 660 FEL
 Section 16, T24S-R7E
 Emery County, Utah

AREA: San Rafael Project
 ELEVATION: 5565' GL, 5575' KB
 SPUD: 3-30-75
 CEASE DRILLING: April 16, 1975
 CASING: 10 3/4" at 135' with 85 sacks
 7" at 3000' with 75 sacks
 CONTRACTOR: True Drilling Company, Rig #4
 TOOL PUSHER: Al McChesney
 CORES: None
 DST'S: None
 GAS DETECTOR: None
 LOGS: Schlumberger, Run #1, IES, 3,000' to surface pipe.
 Run #2, GR-Dual Induction, 3,580' to 3,000',
 GR-SNP, 3,580' to 3,000',
 GR-Density, 3,580' to 3,000'.
 TOTAL DEPTH: 3,611'
 STATUS: P & A

WELL HISTORY

3/28/75: RURT
 3/29/75: RURT
 3/30/75: Drlg. 8 3/4" pilot hole.
 3/31/75: Nippling up, set 135' 10 3/4" casing with 85 sacks cement.
 4/1/75: Drlg. at 236'.
 4/2/75: Drlg. at 672'.
 4/3/75: Drlg. at 825'.
 4/4/75: Drlg. at 1366'.
 4/5/75: Drlg. at 1825'.
 4/6/75: Drlg. at 2348'.
 4/7/75: Drlg. at 2448'.
 4/8/75: Drlg. at 2610'.
 4/9/75: Drlg. at 2825'.
 4/10/75: Drlg. at 2978'.
 4/11/75: Set 7" casing at 3000' with 75 sacks, ran Schlumberger
 IES log, 3,000' to surface.
 4/12/75: Picking up drill pipe.
 4/13/75: Drlg. at 3,070'.
 4/14/75: Drilled tp 3580, prep to log.
 4/15/75: WOO, Ran Schlumberger GR-Dual Ind, GR-SNP, GR-Density
 3580-3000'.
 4/16/75: Drilled thru Kiabab to TD of 3611' and plugged.

FORMATION TOPS

Formation	Sample Top	E Log Top	Datum
Carmel	340'	360'	+5215'
Navajo	1050'	900'	+4675'
Kayenta	1780'	1773'	+3802'
Wingate	----	1890'	+3685'
Chinle	2290'	2280'	+3295'
Shinarump	----	2440'	+3135'
Moenkopi	----	2563'	+3012'
Sinbad	3225'	3225'	+2350'
L. Moenkopi	3335'	3343'	+2232'
Kiabab	3480'	3534'	+2041'
Coconino	3587'		+1988'
(White River)			
TD	3611'		

PLUGGING INSTRUCTIONS

Plugging instructions were received from the State Oil & Gas Commission from Mr. Feight by telephone at 8:30 a.m. on April 15, 1975 59 W. K. Reaves.

Plug #1 100' plug, 3611' to 3511'.
Plug #2 75' plug, across shoe of 7" casing.
Plug #3 75' plug, across (in and out) stub of 7" casing.
Plug #4 100' plug, 950' to 850' across base of Carmel formation.
Plug #5 75' plug, across shoe of 10 3/4" casing.
Plug #6 25' plug, top of surface casing and regulation marker installed.

BIT RECORD

No.	Size	Company	Type	Depth	Out Feet	Hours	Deviation
1	8 3/4"	HTC	J-33	702'	567'	33 3/4	2°
2	8 3/4"	SEC	M-88	1650'	948'	43 1/2	
3	8 3/4"	SMITH	F-5	2577'	927'	63 3/4	
RR-4	8 3/4"	HTC	J-33	2978'	401'	44 3/4	
RR-2	8 3/4"	SEC	M-88	3000'	22'		
5	6 1/8"	HTC	J-55	3611'	611'		

GEOLOGICAL SUMMATION

The True Oil Company #43-16 State was drilled to a total depth of 3,611 feet in 18 days. Intermediate 7" casing was set at 3,000 feet, with 85 sacks of cement, 437 feet into the Moenkopi formation. No change in lithology was noted in samples from the top of the Chenle formation at 2290 feet to 3,000 feet. Schlumberger IES log was run to establish correlation. No shows were encountered to 3,000 feet.

Air drilling was commenced under the 7" casing at 3,000 feet. Good samples were obtained during drilling. No shows of gas or oil were encountered in the Moenkopi or Sinbad formations.

Drilling was stopped at 3,380 feet and air shut off and hole let open for 30 minutes to test for gas or oil. No shows were noted.

Shows were noted in samples at 3,480 feet to 3,580 feet in dolomite, white to light grey to brown, fine grained to dense, tight, no porosity or permeability was indicated.

Drilling was again stopped at 3,520 feet and the air shut off to test. No show was noted and no fluid (water or oil) entered the hole as the hole commenced dusting as soon as drilling was resumed. The hole was drilled to 3,580 feet and logged. The Kiabab top was established at 3,534 feet, by samples it was picked at 3,480 feet.

The hole was drilled to 3,611 feet encountering the Coconino (White River) at 3,587 feet with a small water flow. Drilling proceeded with mist drilling. The hole was then plugged and abandoned.

Wallace K. Reaves
Wallace K. Reaves
Consulting Geologist
P.O. Box 2595
Casper, Wyoming 82601

SAMPLE DESCRIPTIONS

30' samples 130' to 1600'
10' samples 1600' to TD.

In Entrada on drilling out of surface.

130- 280' SILTSTONE, red, calc, trace grey, v clayey, calc.
280- 340' A/A.

Top Carmel 340' Samples, E log 360'

340- 370' SHALE, lt grey, calc.
370- 400' ANHYDRITE, grey-white-clear, some SHALE a/a.
400- 430' SHALE, lt grey, brown, calc, anhydritic, ANHYDRITE,
brown, grey, white.
430- 460' SHALE, grey, calc, soft, LIMESTONE, grey, firm to hd.
460- 520' VPS, shale, siltstone, anhydrite, ls, a/a.
520- 550' SHALE, grey, soft, calc, anhydrite, white, clear.
550- 580' SHALE, grey, soft, v calc, poss some ARG LS, tr
anhydrite, a/a.
580- 730' LIMESTONE, grey to grey brown, dense, hard, no poro
or perm, some shale, grey, soft, calc, tr anhydrite.
730- 790' LIMESTONE, A/a and some w/faint outlines of pellets
or oolites and fossil frags, no poro or perm.
790- 820' ANHYDRITE, white, grey, pink, SILTSTONE, pink,
tan, brn, calc.
820- 850' A/a increase in siltstone.
850- 880' LIMESTONE, green, yellow, red, brns, dense, no show,
no poro or perm.
880- 910' SANDSTONE, fg, clay filled, well cemented, calc, no
poro or perm, no show, subrd, buff to whitish pink.
910- 940' SANDSTONE, f-mg, white to pink, to red, well cemented,
poorly sorted, subround, no show, SHALE & LS, grey.
940- 970' SANDSTONE, a/a, equal parts LS & SHALE, a/a.
970-1000' SANDSTONE a/a, less LS & SHALE.
1000-1030' A/a w/siltstone, red.
1030-1060' SANDSTONE, f-m, poorly sorted, subrd, well cemented,
poor poro or perm, no show, white? pink, LS, grey,
dense, hd, SILTSTONE, red.

Top Navajo 1050' Samples, E log 900'

1060-1180' SANDSTONE, tan to pink, fine-med, poorly sorted,
subrd, well cemented, n.s., LS, grey, dense.
1180-1330' A/a.
1330-1360' A/a.
1360-1480' SANDSTONE, a/a, LS, grey, dense, SILTSTONE, red.
1480-1600' SANDSTONE, a/a, lt tan to pinkish wh, f-m, poorly
sorted, subrd, n.s. tr grey LS, & red SILTSTONE.
1600-1700' SANDSTONE, a/a, becoming more white less tan and
pink in lower portion.
1700-1750' A/a.
1750-1780' A/a.

Top Kayenta 1780' Samples, E log 1773'

1780-1800' SANDSTONE, grey green, glauconitic, fg, subang, green
color due to abund of glauconite, SHALE, green, soft.

30' Samples 1800-1950'

1800-1830' SANDSTONE, a/a, tr SILTSTONE & SHALE, red, conglomeratic.
1830-1860' SANDSTONE, fg, subang, white, pink, red, n.s., tr
glauconite, SHALE, red.
1860-1890' SANDSTONE, red, pink, fg, subang, SILTSTONE & SHALE,
red.

Top Wingate 1900' Samples, E log 1890'

1890-1920' SANDSTONE, f-m, subang-ang, red, purplish, well cemented, n.s., SHALE, green, grey green.

1920-1950' A/a.

No samples 1950-1980'

1980-1990' SANDSTONE, f-m, red, pink, purplish, subang, n.s. silty, SHALE, tr green, grey green.

1990-2050' A/a.

2050-2100' A/a, ss becoming mostly fg.

2100-2290' A/a.

Top Chinle 2290' Samples

2290-2300' SHALE, grey brn, purplish, hd, silty, ss a/a.

2300-2310' SHALE, a/a.

2310-2340' SHALE, a/a, SILTSTONE, red & purplish.

2340-2350' SHALE & SILTSTONE, a/a, SANDSTONE, fg, subang, red brn, purplish cast, n.s.

2350-2400' SHALE & siltstone, a/a.

2400-2430' SHALE, red brn, tr purp, grey green, hd, SILTSTONE, red, yellow, brn w/ purple, siltstone, grades to fg, ss in part, some sli calc.

Top Shinarump 2440' E Log

2430-2440' SHALE & SILTSTONE a/a. Sandstone, f-crse, ang-subang, well cemented, poorly sorted, calc, n.s., white to purple, reds and pinks.

2440-2470' A/a.

2470-2480' SHALE, red brn, purp, yellow, grey, green, SANDSTONE, a/a.

2480-2490' SHALE, YELLOW, red brn, purple, grey green, soft to firm.

2490-2520' SHALE, yellow, green, rd brn, purple, soft to firm.

2520-2530' SHALE, a/a.

Top Moenkopi 2563' E Log

2530-2570' A/a

2570-2630' A/a.

2630-2640' A/a w/grey green calc siltst, sli anhydr.

2640-2650' SHALE, a/a but mostly red brn.

2650-2760' A/a.

2760-2770' SHALE, red brn, anhydritic, grey green, tr yellow.

2780-2920' A/a.

2920-2930' SHALE, red brn, yellow, purp, soft to firm.

2930-2940' A/a.

2940-2950' SHALE, a/a, tr chert, orange red and blue, tr SILTSTONE, lt grey, calc, hd, tite.

2950-2960' Shale, a/a. CHERT nodules w/quartz overgrowths, pale green, SHALE, lt grey SILTSTONE, calc.

2960-2970' SHALE, a/a, CHERT, tr, pink-white-orange, SANDSTONE, vf-f, tan, well sorted, tite, mod firm, n.s. micaceous.

2970-2980' A/a.

2980-2990' A/a.

2990-3000' SHALE, red, yellow, purple, CHERT, tr, orange, SANDSTONE, vf-f, lt grey, tan to orange, well to mod sorted, micaceous in part, tite, firm, n.s., some loose rounded quartz grains.

3000' Circulate Samples

30 min. A/a.

60 min. A/a.

Trip to run correlation log

7" casing set at 3,000' with 75 sacks.

- 3000-3010' SHALE, redish brn, micaceous.
3010-3020' SHALE, redish brn, micaceous in part, tr grey green, n.s.
3020-3030' SHALE, red brn, grey green, red brn, micaceous in part, sli calc, n.s., micaceous shale grades to micaceous siltstone.
3030-3040' SHALE, a/a w/tr purple .
3040-3050' A/a.
3050-3060' SHALE & SILTSTONE, red brn, grey green, micaceous, calc, n.s.
3060-3090' SILTSTONE to VVF SANDSTONE, red brn, micaceous in part, firm, n.s. or fluor, mod sorted, subang, well cemented, sli calc.
3090-3100' SHALE, red brn, tr grey green, micaceous, sli calc.
3100-3150' SHALE, red brn, grey green, calc, micaceous, SILTSTONE red brn, calc, firm, micaceous.
3150-3170' SILTSTONE, red brn, micaceous, calc, n.s., tr grey green.
3170-3190' A/a.
3190-3200' A/a, becoming lighter in color in part, nearly white.
3200-3210' SILTSTONE, a/a, SHALE, red brn, micaceous.
3210-3220' SILTSTONE, a/a, SHALE, red, brn, grey green to lt grey, micaceous.

Top Sinbad 3225'

- 3220-3230' LIMESTONE, grey to lt grey, dense to fine, granular, sandy in part, no fluor or cut, n.s.
3230-3240' Limestone, a/a w/grey brown SILTSTONE, micaceous, firm, n.s.
3240-3250' SILTSTONE, red brn, micaceous, firm, v calc, SHALE, red brn, LIMESTONE, a/a.
3250-3260' LIMESTONE, grey, lt grey, buff, dense, hd, no fluor, no cut no show.
3260-3270' A/a.
3270-3280' LIMESTONE, grey to near white, dense, hd, no poro, no perm, ns.
3280-3300' A/a
3300-3320' A/a.
3320-3330' A/a, w/tr red SHALE.
3330-3340' LIMESTONE, grey to white, dense, hd, tite, n.s.
SHALE & SILTSTONE red brn, micaceous, v calc, firm.

Top L. Moenkopi 3335'

- 3340-3350' SHALE & SILTSTONE red brn, micaceous, sli to v calc, firm, n.s.
3350-3360' SILTSTONE & SHALE, red brn, micaceous, n.s., firm, calc.
3360-3370' SILTSTONE & shale, a/a, LIMESTONE, white to light grey-dense, hd, n.s.
3370-3380' SILTSTONE & SHALE, red brn, micaceous.

Shut down air for 30 min. to test for gas, no indication of gas or oil on resuming air and drilling.

- 3380-3420' A/a.
3420-3430' A/a w/grey green shale.
3430-3440' a/a w/ grey green SHALE.
3440-3450' A/a.
3450-3460' A/a w/50% grey green SHALE.
3460-3470' SHALE, grey green, buff, hd dense, calc, pyritic.
3470-3480' SHALE, grey green, pyritic, red brn.

Top Kiabab 3480' Samples, E log 3534'

- 3480-3490' DOLOMITE, grey to brn, fg, tite, no poro or perm, pyritic, ft dull yell fluor in part, milky fluor on cut, brn residue on evaporation.
3490-3500' DOLOMITE, wh-gry, dense to fg, pyritic, some dull yell fluor, slow Milky yell fluor on cut, poor poro and perm.

3500-3520' DOLOMITE a/a, becoming more pyritic, some free pyrite nodules, tite, no poro or perm.

Shut off drilling and air at 3520' for 30 min. to test for gas and oil, had gas odor at blooey line while drilling, no flare of gas or oil. After 30 min. no flare of gas on starting air and drilling, still had gassy odor.

3520-3530' DOLOMITE, grey, pyritic, dense to fg, dull yell fluor, milky fluor on cut.

3530-3540' DOLOMITE, wh-brn, good yell fluor, slow milky fluor on cut, spotted brn stain, no apparent poro or perm, dense to vfg, CHERT, blue white.

3540-3550' A/a.

3550-3560' A/a, less stain.

3560-3580' A/a.

3580-3590' No Sample, clearing hole with mist to drill ahead.

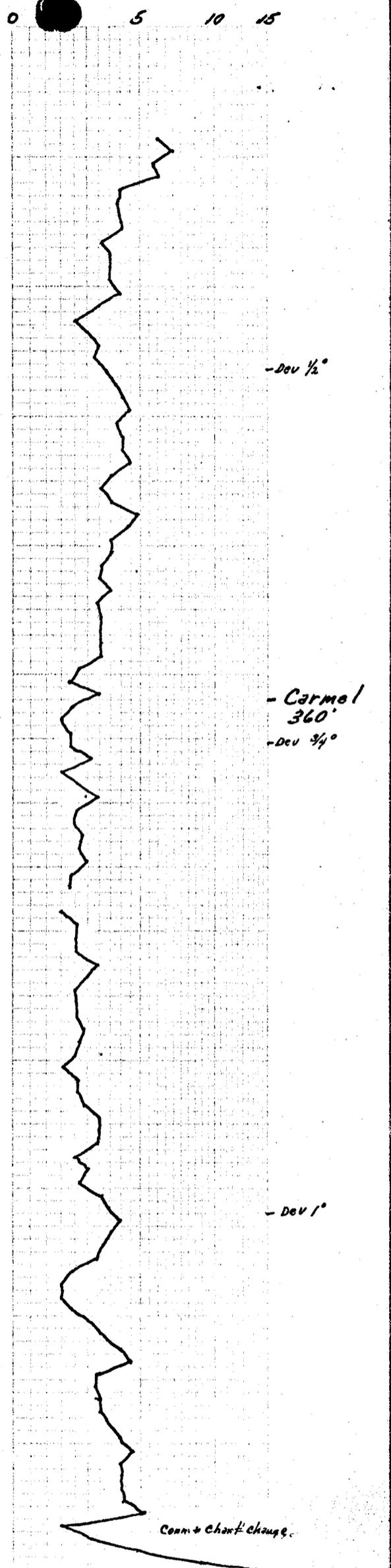
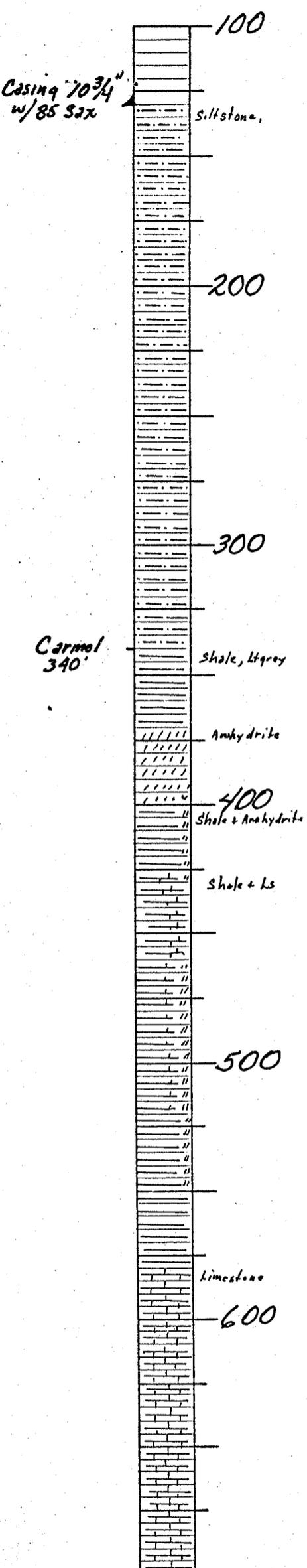
Top Coconio 3,587'

3590-3600' SANDSTONE, vfg, wh, sugary texture, subang, fri, chert, white, loose quartz grains, pyrite.

3600-3610' SANDSTONE, vfg, wh to lt grey green, cherty, blue white, pyrite xls, sand, v fri, loose med-crs quartz grains, subang to subrd, no show, calc in part.

3611' Circ. Samples.

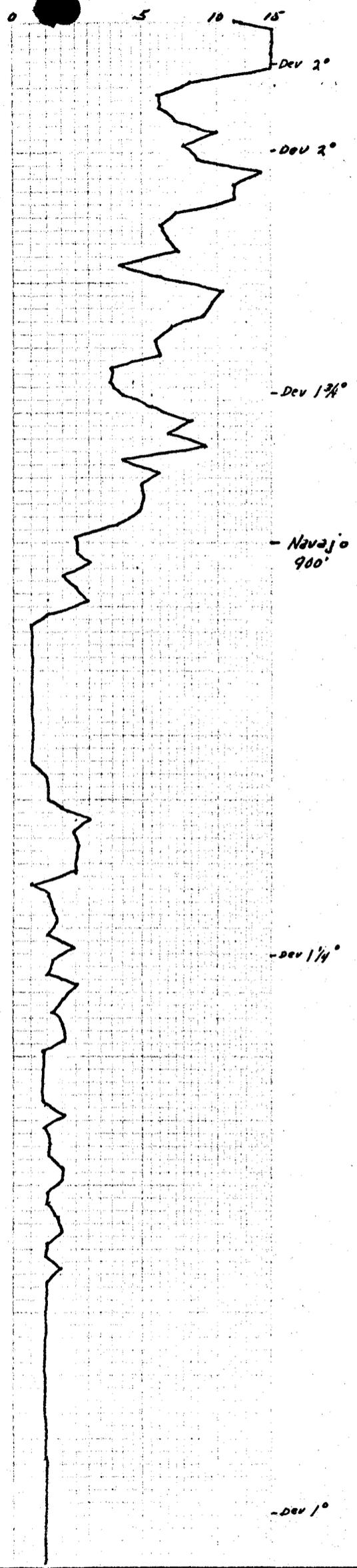
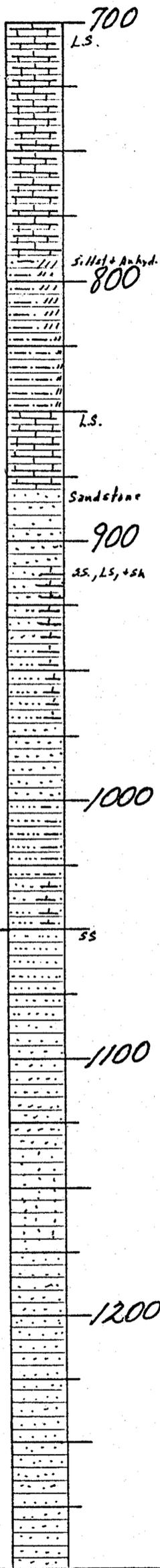
30 min. SANDSTONE, a/a.



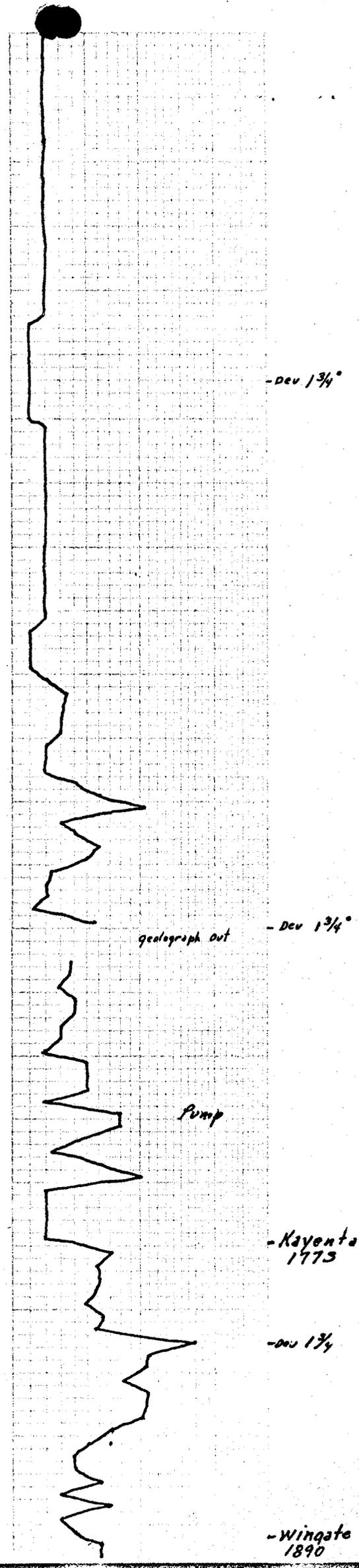
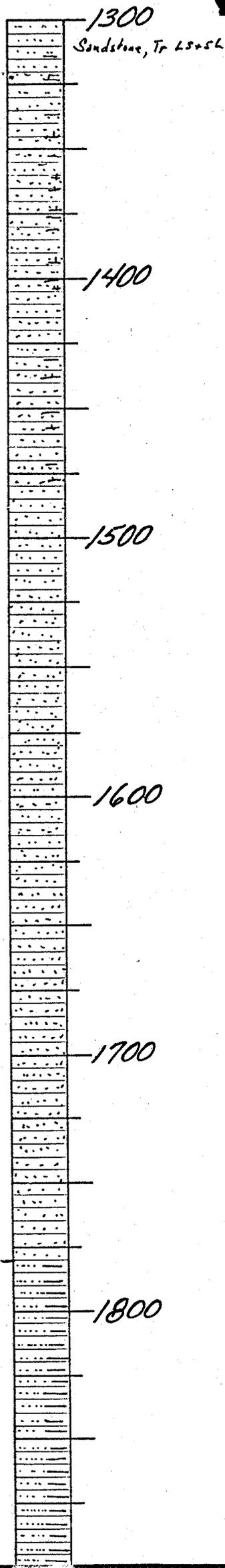
FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.)	FORMATIONS By Penetration
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OPERATOR TRUE OIL CO. WELL 43-16 STATE LOCATION NE SE 16 ELEVATION 5575 KB
T24S R7E

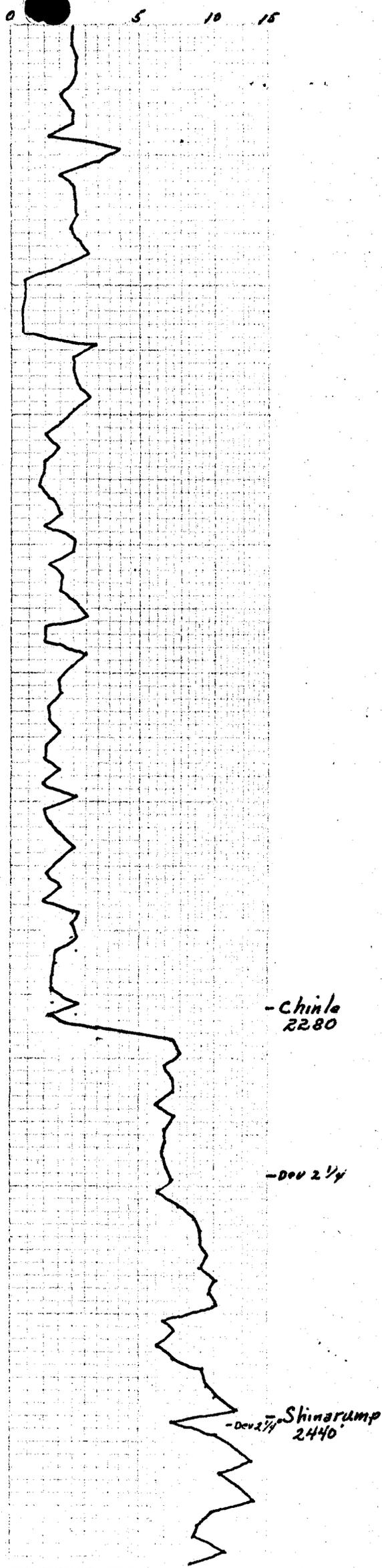
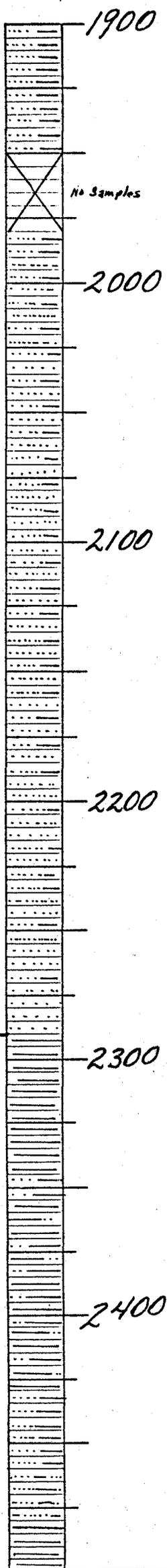
Wallace K. Reaves, PETROLEUM GEOLOGIST, CASPER, WYOMING



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.) 5' Avg	FORMATIONS By Penetration
OPERATOR TRUE OIL CO.	WELL 43-16 STATE	LOCATION NE SE 16		ELEVATION 5575 KB		
Wallace K. Reaves,	PETROLEUM GEOLOGIST,	CASPER, WYOMING				



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.) 5' Avg	FORMATIONS By Penetration + E Log
OPERATOR TRUE OIL CO.		WELL 43-16 STATE		LOCATION NE SE 16 T24S R7E		ELEVATION 5575 KB
Wallace K. Reaves,		PETROLEUM GEOLOGIST, CASPER, WYOMING				



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.)	FORMATIONS By Penetration
					5' Avg	

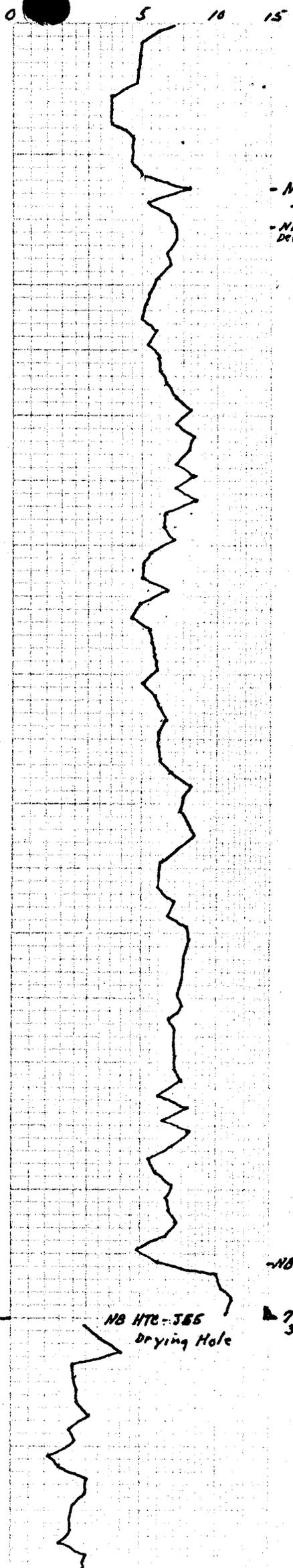
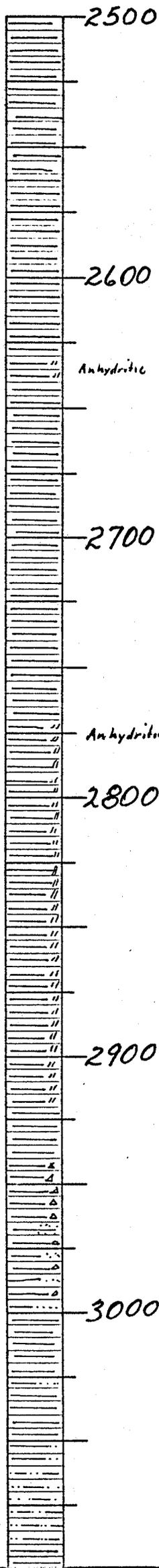
OPERATOR TRUE OIL CO.

WELL 43-16 STATE

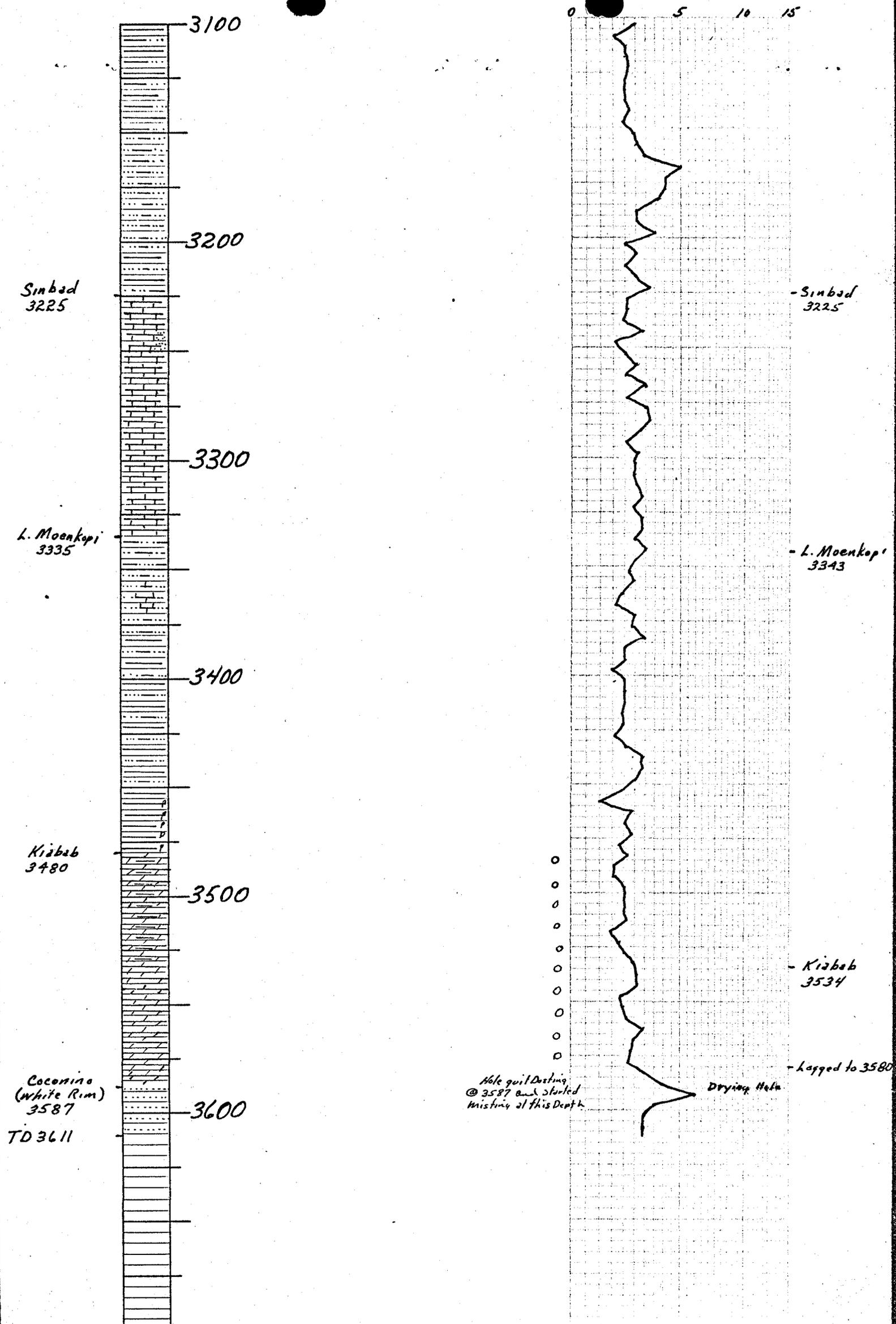
LOCATION NESE 16 ELEVATION 5575 KB
T24S R7E

Wallace K. Reaves

PETROLEUM GEOLOGIST, CASPER, WYOMING



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS	PENETRATION RATE (min/ft.) 5' Avg	FORMATIONS By Penetration + E Log
OPERATOR TRUE OIL Co		WELL 43-16 STATE		LOCATION NE SE 16 TR4S R7E		ELEVATION 5575 KB
Wallace K. Reaves,			PETROLEUM GEOLOGIST, CASPER, WYOMING			



FORMATIONS By Samples	DEPTHS	LITHOLOGY	POROSITY	OIL & GAS SHOWS <small>o = Poor oil show</small>	PENETRATION RATE (min/ft.) 5' Avg	FORMATIONS By Penetration <small>+ E Log</small>
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OPERATOR *TRUE OIL CO* WELL *43-16 state* LOCATION *NE SE 1/4 ELEVATION 5575 KB T24S R7E*

Wallace K. Reaves, PETROLEUM GEOLOGIST, CASPER, WYOMING