

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE*
(Check instructions on reverse side)

2125 FWL
300 FSL
SESU

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-30952
2. NAME OF OPERATOR MEGADON ENERGY CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 57 WEST SOUTH TEMPLE, SALT LAKE CITY, UTAH 84101		7. UNIT AGREEMENT NAME LION MESA UNIT
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SE. SW. SECTION 36-27S-21E.		8. FARM OR LEASE NAME STATE
14. PERMIT NO.	15. ELEVATIONS (Show whether DP, RT, GR, etc.) 5862' GRD; 5880' K.B.	9. WELL NO. ST. #3-36A
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT WILDCAT
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.)*		11. SEC. T. R., M., OR B.L.K. AND SURVEY OR AREA SE. SW. SEC. 36-27S-21E. ²⁰
		12. COUNTY OR PARISH SAN JUAN
		13. STATE UTAH

RIG SKID

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"/>	FULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>INFORMATION</u> <input checked="" type="checkbox"/>	

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

KENAI RIG #3 SPUDDED IN THE OFF-SET WELL ON JUNE 29, 1981 LOCATED 35' EAST OF THE LION MESA #3-36 WELL WHICH WAS LOST DUE TO FISH IN THE HOLE. THE SUBJECT WELL IS ON THE SAME LOCATION, USING THE SAME DRILLING PLAN, AND PROGNOSIS, RESERVE PIT, ETC., AS WAS USED FOR THE #3-36 WELL.

RIG SKID

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7/6/81
BY: Alan B. Ferguson

API # 43-037-30725

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

SIGNED H. Dan Ferguson TITLE PRESIDENT DATE JUNE 30, 1981

(This space for Federal or State office use)

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

A 2

DIVISION OF OIL, GAS AND MINING

Plug - Back

621-1268 (Moab Oper)
Don Quigley

NAME OF COMPANY: Megadon Energy

WELL NAME: Lion Mesa 3-36A

PLUG SKID ✓

SECTION 36 TOWNSHIP 27S RANGE 20E ✓ COUNTY San Juan

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 7707'

CASING PROGRAM:

- 13 3/8" @ 40' Cemented to surf.
- 9 5/8" @ 1010' Cemented to surf.
- 7 5/8" @ 5930' (TOC ?)

FORMATION TOPS:

- Navajo Blind casing
- Wingate Blind casing
- Ghinle Bling casing
- Moenkopie 1000'
- Cutler 2150'
- Rico 2700'
- Hermosa 2850'
- Salt 4310'-7110'
- Salt Water 7150'

PLUGS SET AS FOLLOWS:

- 1.) 7413' - 7200'
- 2.) 6200' - 5800' (WOC tog plug)

DST's:

- 1.) 6930'-7200' (390'W, 240' HGCM, 150' HG & SOCM)
- 2.) 7340'-7381' (205' GCM)
- 3.) 7350'-7413' (5000' Sal. Wtr.)

The interval between plugs shall be filled with a 9.2#, 50 vis. fresh water gel based mud; erect regulation dryhole marker; clean up, grade and restore the location; and notify this Division when the location is prepared for inspection.

DATE 9-19-81

SIGNED

M.T.M.

M. J. Winder

cc: Megadon

RIG SKID

RIG SKID

** FILE NOTATIONS **

RIG SKID

DATE: Sept 25, 1981

OPERATOR: Megador Energy Corp.

WELL NO: Lion Mesa State #3-36A

Location: Sec. 36 T. 27S R. 31E County: San Juan

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-037-307²⁵ 43-657-30725

CHECKED BY:

RIG SKID

Petroleum Engineer: _____

Director: _____

Administrative Aide: _____

APPROVAL LETTER:

Bond Required: RIG SKID Survey Plat Required:

Order No. _____ O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation St.

Plotted on Map

Approval Letter Written

Hot Line

P.I.

RIG SKID

RIG SKID

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5

3
14

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 FLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
MEGADON ENTERPRISES, INC.

3. ADDRESS OF OPERATOR
57 WEST SOUTH TEMPLE, SALT LAKE CITY, UTAH 84101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface SE.SW. Sec. 36-27S-21E, SLM.

At top prod. interval reported below
2120' FR. W-LINE & 500' FR. S-LINE

At total depth

14. PERMIT NO. 43-037-30725 DATE ISSUED 7-6-81

5. LEASE DESIGNATION AND SERIAL NO.
ML-30952

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
LION MESA UNIT

8. FARM OR LEASE NAME
STATE

9. WELL NO.
#3-36A

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SE.SW. SEC. 36-27S-21E

SLM.

12. COUNTY OR PARISH SAN JUAN 13. STATE UTAH

15. DATE SPUNDED 6-20-81 16. DATE T.D. REACHED 8-24-81 17. DATE COMPL. (Ready to prod.) 9-21-81 18. ELEVATIONS (DF, RKB, RT, CR, ETC.)* 5862' GRD; 5880' K.B 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7705' 21. FLUG, BACK T.D., MD & TVD 5848' 22. IF MULTIPLE COMPL., HOW MANY* NONE 23. INTERVALS DRILLED BY ROTARY TOOLS 10-7705' CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* NONE 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN DUAL LATEROLOG, GAMMA-NEUTRON, GAMMA-DENSITY-CNL 27. WAS WELL CORED NO

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
13 3/8"	46.00	40'	17 1/2"	30 sks	None
9 5/8"	36.00	1010'	12 1/4"	400 sks	None
7 5/8"	29.70; 26.40	5910'	8 3/4"	250 sks	None

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NONE							

31. PERFORATION RECORD (Interval, size) NONE 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NONE	

33. OIL, GAS & MINING PRODUCTION DATE FIRST PRODUCTION NONE PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in) SUSPENDED

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO

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

35. LIST OF ATTACHMENTS
DRILLING HISTORY AND SAMPLE LOG

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED W. Don Gingles TITLE PRESIDENT DATE 10-10-81

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22, 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Shinarump	900'	1990'	Conglomerate
Moenkopi	990'	2140'	Red shale, siltstone, sand
Cutler	2140'	2700'	Red sandstone, siltstone
Rico	2700'	2850'	Blue-gry lms., rd. ss, and bl. gry ss.
Hermosa (Upper)	2850'	4315'	Lms, dolomite, calc. ss.
Paradox salt	4315'	7104'	Salt anhydrite, blk shale
Pinkerton Trf	7104'	7316'	Anhydrite, dolomite, blk shale
Molas	7316'	3764'	Red shale, and salt (?)
Miss-Leadville	7364'	7705'	T.D. Limestone and salt (?)



MEGADON ENTERPRISES, INC.

309 Guaranty Bank Building • 817 17th St. • Denver, Colorado 80202 • (303) 573-0093
57 West South Temple • Salt Lake City, Utah 84101 • (801) 359-3575

DRILLING HISTORY
OF
LION MESA #3-36A WELL
SE. SW. SECTION 36-27S-20E.
SAN JUAN COUNTY, UTAH

OPERATOR: Megadon Enterprises Inc.
Suite 240, 57 West South Temple
Salt Lake City, Utah 84101

CONTRACTOR: Kenai Drlg. Co. (Rig #)
717 - 17th Street, Denver, Co. 80202

LOCATION: SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 36, T 27S, R 20E, SLM, San Juan County,
Utah (2120' fr. W-line and 300' fr. S-line)

ELEVATIONS: 5862' Grd; 5880' K.B.

SPUDDED-IN: June 20, 1981

FINISHED DRLG: Aug. 24, 1981

OPERATIONS SUSPENDED: Sept. 21, 1981

TOTAL DEPTH: 7705'

SURFACE CASING: 28 Jts of 9 5/8", 36.00#, K-55 casing, landed at
1010' K.B. and cemented w/400 sks reg. cement w/3% CaCl.

INTERMEDIATE CASING: 136 jts (90 jts (3975') of 29.70#, N-80; and
46 jts (1940') of 26.40# K-55 casing and landed at 5910'
K.B. Cemented w/250 sks self-stress cement w/37% salt.

FISH-IN-HOLE: 9 - 4 $\frac{1}{2}$ " spiral drill collars (31' long) from 7691' to
7413' and 2 jts of 5 3/4" washover pipe at 7371' to 7447'.

PLUGGED BACK DEPTH: 5848'

FUTURE PLANS: None at present, but may go back in and complete well
in Cane Creek zone at a later date.



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DRILLING HISTORY
ON
LION MESA #3-36A WELL
SE. SW. SECTION 36-27S-20E.
SAN JUAN COUNTY, UTAH

- June 27-29: Moving Kenai Drilling Co. Rig #3 to location from Lion Mesa #5-28 well and rigging up.
- June 30: Finished rigging up. Nippled up to drill with air. Installed blowie line and rigged up air compressors.
- July 1: Drilled 30 to 333' (303'). Drilled 12 $\frac{1}{4}$ " hole below conductor pipe with air. Survey at 214' was 0°. Dusting good. Drlg in sandstone at rate of 20 ft/hr.
- July 2: Drilled 333' to 730' (397'). Survey at 605' was $\frac{1}{2}$ °. Drlg. at rat of 25 ft/hr in Wingate sediments with 15 to 20 thousand lbs on bit.
- July 3: Drilled 730' to 920' (190'). Made rd-trip for Bit #2. Bit #1 (Smith-DGJ-RR) made 880' (40 to 920') in 53 $\frac{3}{4}$ hrs. Drilled at an avg. rate of 16 $\frac{1}{2}$ ft/hr. Had tight hole coming out and had to ream 186 ft. back to bottom.
- July 4: Drilled 920' to 1010' (90'). Drilled surface hole to 1010' and prepared to run 9 $\frac{5}{8}$ " surface casing. Had to finish hole with air-mist due to slight seep of water. Bit #2 (Reed Y11J) made 90' (920-1010') in 6 $\frac{1}{4}$ hrs. Drilled at an avg. rate of 15 ft/hr. Survey at 1010' was $\frac{1}{4}$ °. Ran 28 jts of 9 $\frac{5}{8}$ ", 36.00#, K-55 casing with 6 centralizers and cemented with 350 sks of reg cement with 3% CaCl. Didn't get returns to the surface, so filled back side from the surface with 50 more sacks. Landed casing at 1010' K.B.
- July 5: Cement plug down at 1:00 A.M. Waited for cement to cure for 8 hrs. Cut off casing and welded on casing head (National). Pressure tested weld. Nippled up to drill ahead with air.
- July 6: Drilled 1010' to 1528' (518'). Finished installing BOP, hydril, and rotating head. Pressure tested BOP pipe rams and hydril with 1500#. Tightened air manifold. Drilling ahead with 8 $\frac{3}{4}$ " bit with air. Dusting good. Survey at 1312' was $\frac{1}{4}$ °; at 1500' was $\frac{1}{2}$ °. Drilling at rate of 30'/hr. in red beds.

- July 7: Drilled 1528' to 2210' (682'). Survey at 1800' was $\frac{1}{2}^{\circ}$; at 2114' was 2° ; at 2176' was $2\frac{1}{2}^{\circ}$. Backed off wt. on bit to 12,000# to keep hole straight. Drilling in red, siltstone, and shale of Moenkopi and Cutler formations. Est. top of Cutler at 2060'.
- July 8: Drilled 2210' to 2336' (126'). Survey at 2220' was $2\frac{1}{4}^{\circ}$. Hole making a little water, but still drilling with air only. Rotating head froze up; so had to order a new head. Made rd-trip to change out heads. Nippled up new head and went back to bottom and began drlg ahead at 11:00 P.M. Had to wait 6 hrs for replacement rotating head.
- July 9: Drilled 2336' to 2644' (308'). Survey at 2410' was 2° ; at 2608' was $2\frac{1}{2}^{\circ}$. Drlg with air mist from 2384' on. Using 10,000# wt. on bit at 60 RPM. Drlg in Cutler sediments at rate of 8 to 10 ft/hr.
- July 10: Drilled 2644' to 3009' (365'). Drlg with air-mist at rate of 12 ft/hr. Est. top of Rico formation at 2720'. Survey at 2825' was 1° . Still drlg with 10,000# wt. on bit. Est. top of Hermosa at 2850'.
- July 11: Drilled 3009' to 3265' (256'). Survey at 3040' was 2° ; at 3226' was 2° . Drlg in sandstone, dolomite, and limestone.
- July 12: Drilled 3265' to 3533' (268'). Survey at 3444' was $\frac{1}{2}^{\circ}$. Increased wt. on bit to 15,000#. Was down $1\frac{1}{4}$ hrs for repair to cat head. Drlg in Hermosa sediments at rate of 10 to 12 ft/hr.
- July 13: Drilled 3533' to 3778' (245'). Survey at 3660' was $\frac{1}{4}^{\circ}$. Wt. on bit is 15,000# at 60 RPM. Drlg in sandy anhydrite, sucrosic dolomite, and dense xln dolomite. Some fluorescence in cuttings from 3670' to 3770'.
- July 14: Drilled 3778' to 3906' (128'). Survey at 3817' was $\frac{1}{4}^{\circ}$. Made rd-trip at 3848' for new bit. Bit #3 (Reed FP52) made 2838' (1010' to 3848') in 15 $\frac{1}{4}$ hrs. Drld at avg. rate of 18 ft/hr. Had to ream 60 feet back to bottom.
- July 15: Drilled 3906' to 3986' (80'). Encountered lots of water at 3975' and could keep hole unloaded - 6" stream out blewie line. Decided to convert to mud drlg to stay ahead of water. Pulled out of hole to 1000' and began filling hole with brine water. Pumped in 500 bbl of water and had no returns. Worked on mud tanks for 2 hrs.
- July 16: Work on mud pits for 2 hrs. Mixed mud and LCM. Pumped in 1000 bbl of 55 Visc. mud with 22% LCM and had no returns. Mixed another pit of mud (1000 bbl of 55 Visc. and 30% LCM) and had no returns. Called cementers for

cement. Came out of hole and set collars back.

July 17: Went back in hole with drill pipe - open ended. Pumped in 150 sks of RFC cement w/5% gilsonite. Cement down at 0830 AM. Let set until 1:00 P.M. Mixed pit of mud - 60 Visc. with 30% LCM. Pumped in 500 bbl. and didn't get returns. Came out of hole with drill pipe.

Estimated cost to date: \$275,550.

July 18: Dumped 50 sacks of sawdust (dry) down hole. Pumped in 200 bbl of 100 Visc mud with 25% LCM and obtained returns. Came out of hole to remove rotating head and nipple up flow line to tanks. Went back in hole with Bit #5 and encountered bridge at 1050'. Drilled and reamed out bridge and lost returns again. Came out of hole to bottom of surface casing and tried to get returns by pumping in lots of LCM. No success. Rigged up air line to aireate mud and tried to break circulation without success. Came out of hole to put rotating head back on to drill ahead with air. Installed rotating head and blewie line. Went in hole by stages, unloading hole gradually.

July 19: Drilled 3986' to 4172' (186'). Back on bottom and drilling ahead at 5:45 AM. Drilling at rate of 10 to 15 ft/hr. in Hermosa sediments (limestone and dolomite). Drlg with air-mist with 15000# on bit at 60 RPM and 220# air pressure.

July 20: Drilled 4172' to 4405' (233'). Had a drlg break at 4142' to 4189' in sandy dolomite - no shows. Another drlg break at 4251' to 4275' in a dk brown sucrosic dolomite and tan limestone w/fluorescence, good cut, oil stain, and odor. This is probably the Ismay section. Had another drlg break at 4288' to 4312'. This is more dol. and lms with shows and is probable Desert Ck. Encountered top of salt at 4312'.

July 21: Drilled 4405' to 4556' (151'). Drilled to 4556' and had to make round-trip for new bit. Bit #5 (Reed FP52-RR) made 570' (3986' to 4556') in 57 3/4 hrs. Drilled at an avg. rate of approx 10 ft/hr. Cut drlg line and changed rotating head and went back in hole.

July 22: Drilled 4556' to 4685' (129'). Took 6 hrs to stage and unload hole on the way back to bottom. Lost air circulation at 4683' and couldn't unload hole. Built up pressure under string float and had a pressure block. Pulled out to string float and carefully released pressure below float. Went back to bottom and drilled ahead slowly without returns.

July 23: Drilled 4685' to 5030' (345'). Got returns at 4697' and began drlg ahead at rate of 12 ft/hr. Swivel began to leak at 9:45 P.M. and had to make short trip and repack swivel.

- July 23: Drlg mostly in salt at rate of 25 to 30 ft/hr.
- July 24: Drilled 5030' to 5494' (464'). Drlg at avg. rate of 30 ft/hr in salt with thin clastic zones. Clastic zones drlg at rate of 9 to 10 ft/hr.
- July 25: Drilled 5494' to 5830' (336'). Drlg in salt and anhydrite. Had good gas odor, slight stain, cut, and scattered fluorescence in black petroliferous shale and granular anhydrite at 5600' to 5670'; also good show in cuttings at 5790' to 5850'. Had some free oil on samples. Both above zones are clastics between salt beds.
- July 26: Drilled 5830' to 5925' (95'). Bit locked up. Suspected some cones off bit. Came out of hole with bit and found two cones off. Ordered a Globe basket and junk sub from Homco. Waited 5 hrs for tools. Made a rd-trip with basket and recovered one cone. Bit #6 (Security S86F) made 1369' (4556' to 5925') in 84 hrs. Drilled at an avg rate of 16 ft/hr.
- July 27: Made second trip to recover second cone in hole and recovered anhydrite core with vugs and slight bleeding oil. Vugs are due to dissolved salt inclusions.
- July 28: Unloaded hole by stages with air-mist. Drilled another 5' to 5930' to remove any bearings still left in bottom. Circulated hole and started out. Encountered tight spot at 10 stds off bottom. Worked through it and reamed it out. Came out of hole and ran Dual Laterolog from bottom to surface pipe. Tried to run Density-CNL log but hit bridge and logging tool would not go down. Made rd-trip to wipe out bridge. Ran Density-CNL log o.k. Rigged Schlumberger down and going in hole with drill string and come out laying down.
- July 29: Depth: 5930'. Running Casing. Went in hole with drill pipe, collars, and bit by stages. Unloading hole with air mist. Had considerable difficulty getting hole to unload. Air in water going into loss circulation zones. Finally got to bottom at 9:30 P.M. Came out of hole to run casing. Decided not to lay down drill pipe until after casing was run. Laid down drill collars.
- July 30: Waiting on cement to set. Rigged up to run casing. Began running 7 5/8" casing at 2:30 A.M. and finished running casing at 4:30 P.M. (14 hrs). Encountered 5 different tight spots in hole, taking several hours to work casing down thru the tight spots. Ran 136 jts. (90 jts, 3975', of 29.70#, n-80; and 46 jts, (1940') of 26.40#, K-55) casing and landed at 5910' K.B. Cemented with 250 sacks of self-stress cement with 37% salt. Plug down at 7:15 P.M. Will wait 12 hours to cut off casing.

- July 31: Laying down $4\frac{1}{2}$ " drill pipe. Waited on cement until 7:30 A.M. and casing slips. Cut off csg (csg on a vacuum). Removed rotating head and blowie line. Rigged up flow line. Began running $4\frac{1}{2}$ " drill pipe in hole at 4:30 P.M. Rigged up to lay down drill pipe. Began laying down $4\frac{1}{2}$ " drill pipe at 7:00 P.M. Unloaded 8000' of $3\frac{1}{2}$ " drill pipe and 15 - $4\frac{1}{2}$ " drill collars plus $3\frac{1}{2}$ " kelly.
- Aug. 1: Finished laying down $4\frac{1}{2}$ " drl pipe at 0200 hrs. Laid down $4\frac{1}{2}$ " kelly and picked up $3\frac{1}{2}$ ". Picked up 15.4 $3/4$ " drill collars and $3\frac{1}{2}$ " drill pipe and $6\frac{1}{2}$ " bit. Encountered top of cement at 5532'. Drilled hard cement to 5908' with salt water. Ran survey at 5902' = $2\frac{1}{4}$ ". Drilled out float shoe and lost 100 bbl of salt water. Regained about $\frac{1}{2}$ circulation. Mud logging unit arrived at 2200 hrs.
- Aug. 2: Waiting on cement. Drilled out from under csg with $6\frac{1}{2}$ " hole. Drilled 5977' and losing circulation gradually. Decided to run bond log to determine if any cement around shoe of csg. Came out of hole with drill pipe. Well flowed back on occasion. Some gas and oil with salt water. Couldn't measure amount. Ran CBL log and found no cement bond on outside of csg. Called for cementer (Dowell). Waited 8 hrs for cementers. Pumped in 50 bbl heavy mud (100 Vis) with 25% LCM ahead of cement. Pumped in 100 sacks of self-stress cement with 37% salt and 2% CaCl. Displaced cement with 256 bbls of salt water. Plug down at 2015 hrs. Waiting on cement to set. Having real problems with cement.
- Aug. 3: Drilled 5977' to 6006' (29'). Waited until 0600 hrs for cement to cure. Opened valve on surface and hydril and bled off pressure. Picked up bit and junk sub and started in hole. Ran in collars and 15 stds of drill pipe and well started flowing green cement out drill pipe. Put on safety valve and let well flow to pits. Flowed green cement and salt water in a 6" stream. Let well flow for 3 hrs and flow rate was continuous. Did not decrease. Went on in hole with bit to bottom and drilled to 6006' so as to pick-up any additional iron or junk on bottom. Mixed 80 bbl of mud with some weight material to kill flow while coming out of hole. Came out of hole and picked up $7\frac{5}{8}$ " packer, went back in hole with packer and set at 5500'. Rigged up Dowell to re-cement casing. 7
- Aug. 4: Mudding up at 12:00 Midnight. Waited on cement until 8:30 AM. Released pressure on csg and drl pipe at 9:30 AM. Released packer came out of hole and laid down same. Went back in with bit; tagged cement at 5744'. Drilled out cement to bottom of casing. No loss circulation but had salt water flow below casing. Suspect a salt water flow zone below csg at approx. 5980'. Had planned to use Polymer but impractical

due to water flow; therefore, mudding up with sea mud.

- Aug. 5: Drilled 6006' to 6222' (215'). Drilling at avg. rate of 10'/hr. Mixed mud for 4 hrs. Wt. on bit is 10-12,000# at 60 RPM. Mud wt: 11.2; Visc: 45; W.L.: 50. Pump strokes 48/min at 1200# PSI.
- Aug. 6: Drilled 6222' to 6446' (224'). Drilling at 9.6 ft/hr. Wt. on bit is 12,000# at 60 RPM. Mud wt. is 11.1, visc. is 44, w.l. is 50. Losing 1" of mud per hr. from pits due to seepage in hole. Added LCM. Drilling in salt.
- Aug. 7: Drilled 6446' to 6670' (224') in 22 3/4 hrs. Drilling at avg. rate of 9.8 ft/hr. Wt. on bit is 12,000# at 60 RPM. Mud wt. is 11.4, visc. is 48, w.l. is 48. Mud Cake 2/32, Ph is 7.4. Had a gas kick at 6232'. At 6222' encountered black petroliferous shale, bleeding gas with slight cut.
- Aug. 8: Drilled 6670' to 6736' (66'). Drilling at average rate of 4.6 ft/hr. Had to condition hole, change pipe rams, and cut drilling line. Installed 3 1/2" pipe rams. Made a rd-trip at 6713' for a new bit. Bit #10 (Smith F4 RR) made 886' in 80 hrs.
- Aug. 9: Drilled 6736' to 6969' (233'). Drilling at average rate of 9.8 ft/hr. Wt. on bit is 15-18,000# at 60 RPM. Mud wt is 11.5, visc. is 45. Drilled salt to 6944'. Had anhydrite and black shale with bleeding gas, strong odor, and slight cut from 6944' to 6900'.
- Aug. 10: Drilled 6969' to 6995' (26'). Drilled at average rate of 1.1 ft/hr. Wt. on bit is 18,000# at 60 RPM. Mud wt. is 11.7, Visc. is 45, W.L. is 12. Pump strokes 42/min. at 1300# psi. Accumulative cost is \$687,852.
- Aug. 11: Drilled 6995' to 7013' (18') in 23 3/4 hrs. Drlg at avg. rate of 3/4 ft/hr. Wt. on bit is 18,000# at 60 RPM. Mud wt is 11.7, Visc. is 49, W.L. is 11. Bit is drilling at rate of 1'/1 1/2 hrs. Plan to pull bit and go in with tooth bit. Gas odor and stain on cuttings. No evident porosity.
- Aug. 12: Drilled 7013' to 7022' (9'). Drlg rate decreasing, so decided to pull button bit and go in hole with tooth bit. Had water flow and had to mix mud (310 sacks of barite) to kill water flow thru choke lines. Bit #11 (Reed FP52) made 309' (6713' to 7022') in 92 1/2 hrs. Drl'd at an avg rate of 3 1/2 ft/hr. Suspect clastic zone is Cane Ck. due to thickness of zone.

MEGADON ENTERPRISES INC.
LION MESA #3-36A WELL
DRILLING HISTORY

PSGE 7

- Aug. 13: Drilled 7022' to 7032' (10'). Had to mix another 200 sks of barite to kill water flow. Came out of hole while mixing weight material in mud pits. Finally got mud wt. to 11.8#, 5⁺ Visc. and killed water flow. Began drilling ahead at 4 PM.
- Aug. 14: Drilled 7032' to 7066' (34'). Drlg with tooth bit (Security S3J-6¹/₄") at rate of 1¹/₂ ft/hr. in anhydrite, black shale, and dolomite. Hit a salt bed at 7050'.
- Aug. 15: Drilled 7066' to 7113' (47'). Had salt to 7100', and bit gave out at 7106' so made rd-trip for new bit. Bit #12 (Security S3J) made 84' (7022' to 7106') in 35¹/₄ hrs. Drld at an avg rate of approximately 2¹/₂ ft/hr. Encountered more gassy black shale and brown anhydrite with oil stain at 7100'. Drlg with 15,000# wt. at 60 RPM. Had to mix more mud (350 sacks of barite) to curb water flow. (6¹/₂ hrs mixing mud.) Estimated cost to date is: \$743,862.
- Aug. 16: Drilled 7113' to 7148' (35'). Drlg at rate of 21 to 66 min/ft. in black petroliferous , gassy shale - good odor and fluorescence - some graular anhydrite. Mud wt. is 12.3, visc. is 5⁺, w.l. is 40. Pump pressure is 1300# at 42 SPM. (5¹/₂" X16" liners). Wt. on bit is 18,000# at 60 RPM.
- Aug. 17: Drilled 7148' to 7168' (20'). Drlg terribly slow at rate of 78 to 96 min/ft. in anhydrite and black shale as above.
- Aug. 18: Drilled 7168' to 7182' (14'). Drlg at rate of 66 to 100 min/ft. in anhydrite and black petro sh. with 20,000# on bit at 60 RPM. Mud wt is 12.3, visc. is 59, and w.l. is 4. Worked on mud all night to get solids and viscosity down.
- Aug. 19: Drilled 7182' to 7200' (18'). Decided to run DST due to gas on mud and show in samples, plus need to test Cane Ck section for possible fracture production. Circulated and conditioned mud for 4 hrs in preparation for DST. Made round trip to pick up test tool. Bit #13 (Smith F2) made 94' (7106' to 7200') in 89¹/₂ hrs. Drilled at an avg. rate of about 1 ft/hr.
- Aug. 20: Drilled 7200' to 7217' (17'). Ran DST #1 as follows: (Lynes)
Interval: 6930' to 7200' (270')
Init Open: 15 min.
Init Shut-in: 1 hr.
Final Open: 1¹/₂ hr.
Final Shut-in: 2¹/₄ hrs.
Blow: Good blow immediate - 3/4# in 15 min; 1¹/₂# on final flow - decreasing to 1/2# in 30 min. and then steady to end of test.
Rec: 390' fluid (240' of heavily gas cut mud and 150' of heavily gas cut and slightly oil cut mud). 6500'

gas in drill pipe.

Sample Chamber: 118# pressure; 2150 cc of heavily gas cut mud.

Pressures:

IHP = 4454	FHP = 4013
IFP = 188-171#	FFP = 171-181#
ISIP = 1208#	FSIP = 1524#
BHT = 122°	

Shut-in pressures were slow to build indicating tight formation plus possible mud invasion. Came out of hole with test tool and loaded out same. Went back in hole with Bit #14. Back on bottom and drilling at 1600 hrs. Drlg. at rate of 2 ft/hr. Well flowed mud and then brine water (2" to 6" stream) thru-out test period; also had good green oil flow for short period of time just after starting out of hole with test tool.

- Aug. 21: Drilled 7217' to 7283' (66'). Drlg in limestone, salt, and dolomite. Some dull fluorescence on limestone. Had a salt bed at 7215' to 7525'; then brown and white limestone plus brown dolomite (xln and dense). Some dull fluorescence on lms. Bit torqued-up at 7283' so made rd-trip for new bit. Bit #14 (Security S3J) made 83 ft (7200-7283') in 30 hrs. Drilled at avg. rate of 2 3/4 ft/hr. using just brine water for circulation. Drilling by recirculating brine water from well. Had a good flow of oil for short time after trip for bit.
- Aug. 22: Drilled 7283' to 7347' (64'). Drlg at avg. rate of 3 ft/hr. Encountered more salt at 7300' to 7347' so obviously not in Mississippian yet. Lithology is quite different than in previous wells. Appear to have more oil with brine water. Salt is red, granular and coarse grain with some brown residual oil on grains, and dull green fluorescence.
- Estimate Cost: \$841,024.
- Aug. 23: Drilled 7347' to 7607' (260'). Drlg at rat of 2 to 6 min/ft in limestone and salt. Estimate top of Mississippian-Leadville at 7300'. Had good drlg break at 7340' - broke from 18 min/ft at 7440'. Had fluorescence, residual oil specks, good odor, and cut on some of the samples. Limestone is sucrosic, granular, and vuggy as well as chalky. Drlg with salt water with 20,000# on bit at 60 RPM with pump pressure at 1300# at 46 SPM.
- Aug. 24: Drilled 7607' to 7705' (98'). Decided we had drilled deep enough into the Leadville and should test the section. Pulled up off bottom 18 feet and began circulating in preparation for DST. Drill string suddenly became stuck while circulating - partially due to some loss-circulation at the bottom of the hole. Worked pipe 12 hrs without moving it, so called Homco to run free point. Waited on Homco for 3 hrs. Ran free-pt and found bottom two collars stuck. Tried to back-off at top of second collar without success.

- Aug. 25: Trying to back-off at 2nd and 3rd collar from bottom four times without success. Ran free point several times and found that more and more of the collars were becoming stuck; so decided that the salt water flow would have to be killed. Began mixing gel and weight material.
- Aug. 26: Finally backed off top two collars. Mixed mud and circulated to kill salt water flow. It took $9\frac{1}{2}$ hrs. to get mud conditioned and water flow stopped. Mud wt is 12.4; visc. is 55. Picked up bumper sub and jars and went back in hole to screw into fish. Began bumping fish down and jarring up on fish. No movement.
- Aug. 27: Jarred on fish till 0200 hrs. without any movement; so tried to back off manually and drill string broke in wrong place; so ran free point and backed off at top of fish (7285'), leaving 13 collars in hole. Condition mud and circulated hole clean and came out of hole to pick-up washover pipe. Had to wait 3 hrs for proper subs. Started in hole with washover pipe and shoe and couldn't get the first joint in. Found that casing was coated with salt on the inside; so had to put on bit and ream the top 700 ft. (joint by joint) before the drill string would go. Picked up washover pipe again and started in hole. (4 jts - 140' of wash over pipe.)
- Aug. 28: Fish going in hole with washover pipe (5 3/4" by 22# washover pipe). Got over fish and began washing over. First joint went well, but second joint was very slow ($1\frac{1}{2}$ ft/hr). Washed over 2 collars and part of the third down to about 7350' and couldn't get the pipe to go further so came out of the hole to check the shoe. Found the shoe okey. Went in hole with jars and bumper sub and screwed into fish. Jarred on fish for 2 hrs without movement; so had Homco run free-pt and found only the top collar free.
- Aug. 29: Backed off third collar and came out of hole (12 collars left in hole). Went back in hole with wash pipe and new shoe. Began washing over at 9:30 AM. First collar washed over easy; but second collar was very slow and finally stopped. Decided shoe was worn out or was cutting collar due to bend in hole; so started out of hole to check shoe.
- Aug. 30: Found shoe okey; but put on new shoe and went back in hole with wash pipe. Washed over all day and made approximately 50 ft. down to 7430'. Another 5 to 10 feet should free 4 more collars. Estimated total cost to date is: \$951,179.
- Aug. 31: Depth (7705'). Washing over 4th, 5th, and 6th drill collars for $17\frac{1}{4}$ hrs. Washed over 3 more collars and wash pipe began torquing-up and wouldn't go further; so came out of hole and laid wash pipe down. Went back in with fishing string (Jars, bumper sub, accelerator) and screwed into top of fish.

- Sept. 1: Depth (7705'). Jarred on fish for $\frac{1}{4}$ hour without moving it. Ran free-pt. Had only two collars free (#4 & #5). Backed off and came out of hole. Laid down collars and went back in hole with wash pipe. Began washing over collars.
- Sept. 2: Depth (7705'). Washed over drill collars down to 7428' and wouldn't go further, so came out to check shoe and wash over pipe. Shoe only made 24' more. Have 50 ft. of collars washed over. Found shoe in good shape. Went back in hole with new shoe and wash-over pipe. Began washing over some more. Washed down to 7445' and stuck wash-over pipe. Worked for 2 hrs. without moving it. Spotted 10 bbl of diesel. Had good circulation.
- Sept. 3: Depth (7705'). Displaced diesel around wash-over pipe gradually - 1 bbl at a time - over period of 4 hrs and jarring on pipe occasionally. Jarred on pipe for 10 hrs at 30 min. intervals without success. Continued circulating and conditioning mud.
- Sept. 4: Depth (7704'). Planned to spot acid around fish, but decided against it after seeing reaction on mud; instead spotted approx. 75 bbl of diesel. Had to get Dowell pump truck to move diesel around due to hydrostatic difference and high pump pressure to move diesel around (3000#). Participants decided to try running a DST on portion of Mississippian open above fish; thus had to arrange to back-off wash pipe. Allowed diesel to set for 5 hrs and moved it around pipe slowly - 5 bbls at a time - and jarring periodically.
- Sept. 5: Water flow started again; so had to condition mud and bring mud wt up to 12.1 to stop flow. Finally got flow stopped and circulated hole for DST and back-off of wash-over pipe. Ran in string shot and backed off 2 jts of wash-over pipe. Left two jts of wash over pipe in hole. Had to work on mud again when part way out of hole with wash-over pipe due to water flow starting again. Finished trip out and laid down two joints of wash-over pipe.
- Sept. 6: Went back in hole with fishing tools to back off the two or three free collars and to shoot holes in the stuck collars in porous area for DST. Couldn't screw into fish or circulate clean. Had 60 ft. of fill on top. Tried several times without success. Top of wash-over pipe is at 7371' and top of collars is 7381'. Came out of hole and waited for Lynes test tools. Well started flowing again while waiting so had to go back in with drill pipe and condition mud to stop flow. Raised mud wt to 12.4# and got flow stopped. Circulated for 8 hrs.

Sept. 7: Came out of hole and picked up test tools. Went in hole and ran DST #1 as follows:

Interval: 7340-7381' (41')
Init Open: 40 min
Init Shut-in: 1¼ hr.
Final Open: 2 hr
Final Shut-in: 3 hr.
Blow: Weak initially building to 6" in water in 12 min. and then decreasing to 4" in water after 40 min. Very weak on final open - few bubbles thru-out flow period.
Rec: 205' of gas cut mud.
Sample Chamber: 85#, 2000 cc. of gas cut mud.
Pressures:

IHP = 4820#	FHP = 4701#
IFP = 87-203#	FFP = 203-261#
ISIP = 2503#	FSIP = 2503#
BHT = 220°	

Tested only top 40 ft. of Mississippian in the usual non-porous section so test is not very conclusive. Will have to clean out top of fish; so ordered small collar and bit sub for 4 5/8" bit. Waiting on tools.

Estimated cost: \$1,027,679.

Sept. 8: Went in hole with small bit and 3½" drill collar to clean out on top of fish. Waited 2½ hrs. on tools. Washed and circulated to 7381' top of fish. Came out of hole with small bit. Laid down 4 drill collars due to swelled boxes and replaced with three other drill collars (4½"). Went in hole with fishing tools and screwed into top of fish. Tried to run perforating gun down into fish several times without success. Tried spudding with a wireline spudder with sinker bars and jars without success. Decided to call for Newsco and flex tubing to run inside drill pipe to blow out the debris. Waited 6½ hrs on Newsco.

Sept. 9: Waited all day for Newsco and flex tubing.

Sept. 10: Rigged up Newsco and ran flex tubing in hole. Washed down to 7381' (top of fish) blowing drill pipe clean and dry with N₂. Wouldn't go below 7381' after several attempts; so started out of hole with endless (flex) tubing. Pulled up approx 100' and stuck tubing. Tried pulling and circulating with more nitrogen to no avail. Rigged up Dowell to pump tubing loose. Pumped up to 4500# (maximum pressure for tubing) and tubing still didn't come loose. Finally pressure up on annulus to 5000# and opened inside suddenly and tubing came loose. Came out of hole with tubing.

- Sept. 11: Rigged down Newsco and decided to run string of 1 $\frac{1}{4}$ " drill pipe inside 3 $\frac{1}{2}$ " drill pipe and down into collars to clean inside out down to the bottom. Called for drill pipe - waited for 9 $\frac{1}{2}$ hrs on tools. Began picking up 1 $\frac{1}{4}$ " drill pipe and going in hole with 1 7/8" bit to drill out bridges.
- Sept. 12: Finished picking up drill pipe. Hit first bridge or obstruction at 7235'. Rigged up power swivel and high pressure triplex pump and drilled and washed thru the bridge. Hit another obstruction at 7300' and drilled thru 2nd bridge. Had slight obstruction at 7381', but circulated thru it. Cleaned out collars down to 7685' (float at 7690' approx). Displaced water inside drill pipe with mud and started out of hole laying down 1 $\frac{1}{4}$ " drill pipe.
- Sept. 13: Finished laying down drill pipe and rigged up Schlumberger to log bottom of hole inside drill pipe (Gamma-Neutron tool 1 3/4" O.D.). Logging tool wouldn't go past 7381'. Tried spudding tool several times without getting thru. Logged hole from 7381' to 5500' and came out with tool. Went in drill pipe with Homco spudding tool and jars and drove thru restriction at 7381'. Came out and ran deviation survey at 7400' to check for possible sharp bend in hole at this depth. Survey was 3 3/4°. (Last survey at about 7200' was 2 $\frac{1}{4}$ °.) Went back in hole with logging tool and logged well from 7654' to 7381' - okey. Log shows top of Miss at 7306' with a possible transition zone from 7306' down to 7364' for continuous limestone. Log indicates good porosity in the limestone from 7425' to below 7550'. Went in hole with free point tool and found collars still free above 7445' and had partial movement down to 7475'; so came out of hole with free-pt tool and went back in hole with perforating gun and shot 3 holes in collars at 7475'. Began circulating thru holes in collar at rate of 1/8 bbl per minute at 2000# pressure.
- Sept. 14: Continued to circulate thru holes in collars and gradually increased circulation rate to $\frac{1}{2}$ bbl per minute at 2400# pressure. Circulated for 12 hrs and ran another free-pt. Found collars still stuck below 7445'. Decided to perforate collars at 7503' (bottom of same collar) with four shots. Began circulating again and lost circulation so bottom perfs at 7503' are definitely in porous zone. Mixed mud and built volume back up in pits. Backed off collar at 7413' and circulated hole.
- Sept. 15: Finished mixing mud and circulating hole and came out of hole with one additional collar (9 collars left in hole). Went back in hole and screwed into fish. Dropped 4 frac-balls to plug off lower perfs and began circulating thru upper perfs at 7475'. Circulated for 4 hrs and increased rate to 1 $\frac{1}{4}$ bbl/min at 2500# pressure. Ran free-pt and found only bottom 3' of 9th collar stuck, so tried to back off 9th collar three

times without success. Decided to give-up and run DST on top of fish at 7413'. Called tester.

- Sept. 16: Went in hole with string shot to back off again at 7413'. Didn't back off. Circulated with Homco pump - 2500# at 3 bbl/min. for 2 hrs. Ran free pt and found fish still stuck below 7443'. Jarred on fish for 1 hr and didn't move it. Ran another string shot and tried unsuccessfully to back-off fish. Homco stranded their line coming out and had to remove 7500' of line. After removing the line, the drum wouldn't work due to hydraulic pump failure. Waited for repairs to Homco truck 8 hrs. Tried to get other Wireline trucks unsuccessfully. Jarred on fish while waiting.
- Sept. 17: Wait on repairs to Homco truck for 20 hrs. McCullough arrived at 10:30 PM., but their truck wouldn't function either due to hydraulic failure. Repairs to Homco truck finally arrived so began installing new hydraulic pump.
- Sept. 18: Made 3 runs with string shot and finally backed off drill string at 7413'. Circulated and conditioned mud for 3 3/4 hrs. Came out of hole with drill pipe and fishing string. Picked up test tool and went back in hole with test tool. Ran DST #3 as follows:
- Interval: 7350-7413' (63').
Init. Open: 15 min.
Init Shut-in: 1 hr
Final Open: 1 1/2 hr.
Final Shut-in: 3 hrs.
Blow: Good blow immediately 5 1/2# in 15 min. Good blow on final flow - 2# decreasing to dead in 75 min.
Rec: 5000' of slightly gas cut muddy sulphurous salt water.
Sample Chamber: 12# pressure; 2100 cc. of black sulphur salt water. Resis. = .05 ohm at 68°.
Pressures:
IHP = 5526# FHP = 5515#
IFP = 608-1752# FFP = 1868-2505#
ISIP = 2505# FSIP = 2524#
BHT = 223
- Started out of hole with test tool.
- Sept. 19: Finished trip out with test tools and laid down tools. Waited on orders for 8 hrs. Laid down drill collars and loaded out Homco tools. Went back in hole to place cement plugs. Circulated 6 1/2 hrs waiting on cementers.

Sept. 20: Rigged up National Cementers and placed Plug #1 (50 sks) at 7413' to 7200' (top of fish). Pulled 12 stds and 1 single and placed 2nd plug (100 sks) at 6200' to 5800' (bottom of intermediate casing and across salt water zone). Began laying down drill pipe. Waited 5 hrs and tagged top of Plug #2 at 5848'. Laid down rest of drill pipe. Cleaned mud pits.

Sept. 21: Began rigging down. Nippled cellar down and removed BOP. Released rig at 1200 hrs. Will weld cap and valve on casing. Well is plugged back to 5848' inside 7 5/8" casing and is suspended until further notice.

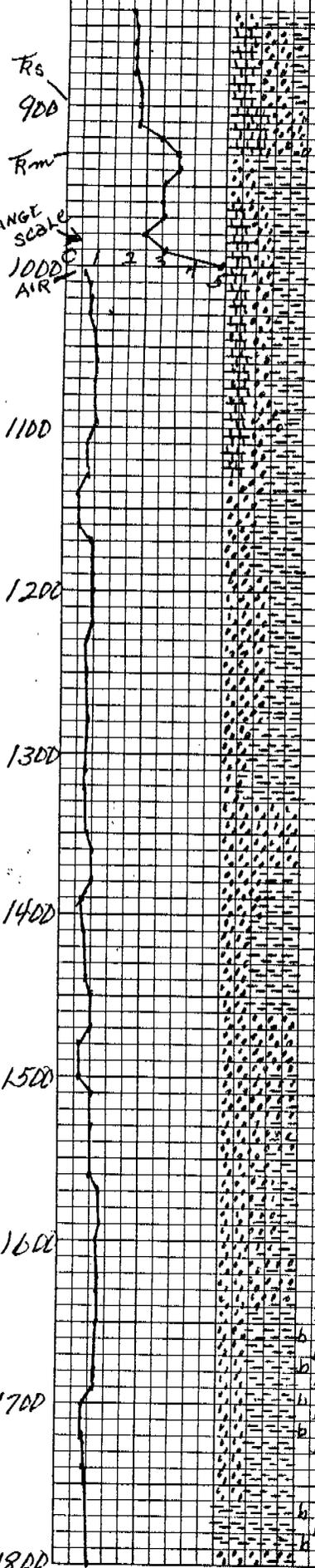
TOTAL ESTIMATED COST: \$1,208,279.00

800
msin/ft

WILSON #3-36

840'-1800'

SE. SW. Sec. 36, T22S, R10E
BLVD. 5862'gd.; 5880' K.B.



Rd. sh. & sist.
GAN - gny calc. vfg. ss. & sh. & sist.

LT. gny mg. sub. calc. ss. & lt. gny ms.
LT. gny to calc. mg. to calc. ss. & lt. gny ms.
Rd. sh. & sist.

sh. calc. rd. sh. & sist.

Rd. calc. sist & sh. ← 9 7/8" casing put at 1085'
drilling w/2 1/2" hole.

+ gny-gan sh.

Rd. calc. sist.

LT. rd. calc. sist + dk gny sh.

choc. sist & sh.

Survey at 1150' was 7/4

+ gny-gan sh.

LT. rd. mica. sist.

+ dk gny to choc. sh.

choc. & gny silty sh.

Rd. fg. aug. ss.

black rd. to choc. mica sist.

+ some gan sh.

DK gny to dk. gan vfg. ss.

DK bnw to choc. vfg. mica ss & sist.

LT. rd. vfg. ss + choc. sist & gny sh.

DK rd. mica fg. ss + gny sh.

DK rd. mica to bent. sh. & sist.

LT. rd. bent. sh. & sist.

DK rd. v. mica sist. & sh.

LT. rd. bent. sh.

DK rd. vfg. mica ss. & sist.

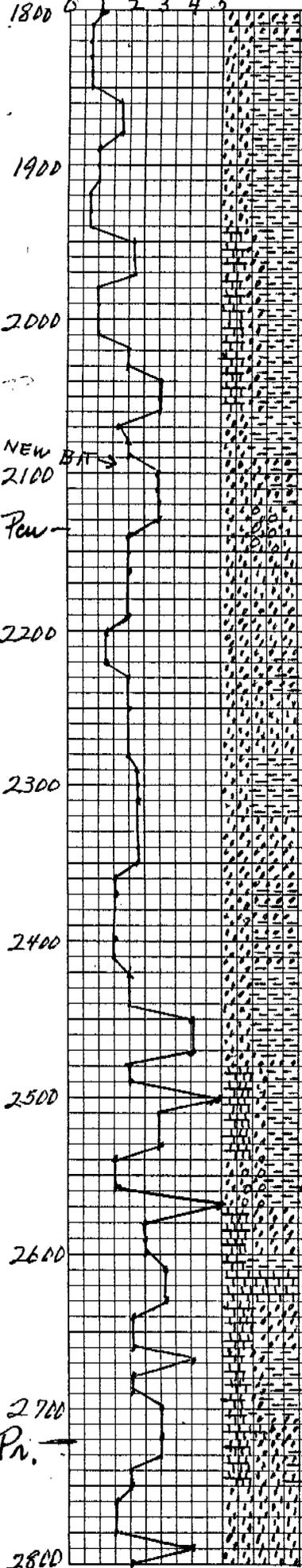
46 0860

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1800 0 1 2 3 4 5

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5 X 5 TO 1/2 INCH * 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.



DK. rd. v.fg. mica. ss. & sist.
LT. rd. mica sist.

LT. rd. mica. calc. sist. (free calc.)

DK. rd. mica sist.

Rd. v.fg. mica ss. & sist. - - CHANGED TO AIR-MIST.

Rd. c.f. TO calc. mica ss & gray-gn. gran. c.f. ss.

Rd. mg. TO fg. mica ss & gray-gn. fg. gran. ss

RD v.fg. mica ss & sist.

Rd. c.f. mica ss.

Rd. mica sist. & sh.

Rd. c.f. mica ss.

Rd. fg. sily mica ss.

Rd. sist. & sh.

+ some lt. gray mica v.fg. ss. & gn. sh.
+ some bi. gray ms. & gn. sh.

Rd. sist. ; gn. sh. ; ch. gtz. & ch. pebb.

ch. mg. ang. ss. + gray calc. gtz. ss.

gray gn. calc. sh.

lt. gray TO lt. wan xln ms.

gray & tan calc. dms v.fg. ss & gray sily ms.

DK. tan calc. sist. & sh.

gray gn. calc. sh. & lt. gray fg. calc. ss

lt. gray calc. ss. + lt. gray xln ms.
Rd. sily calc. fg. mica ss. ; blue-gray v. mica, mg. ss. ; gray ms

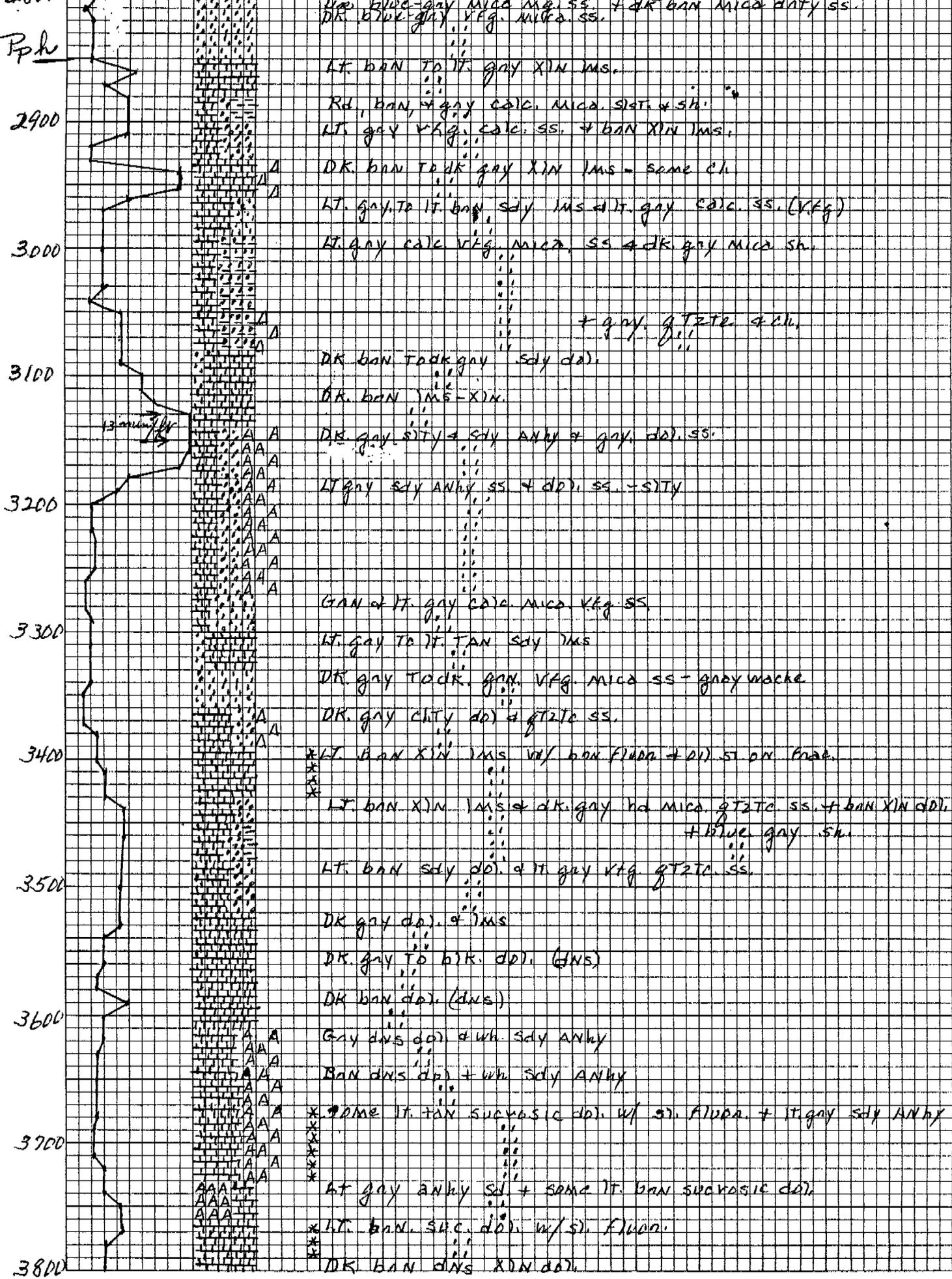
Rd. c.f. ang. ss.

blue-gray TO lt. gray mg. v. mica ss + dk. tan mica mg. ss.

2700
Pr.

2800

28000' ^{midway ft.} 5 10 in Area # 3-36 60' 2800' - 3800'



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3800

3900

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4400

4500

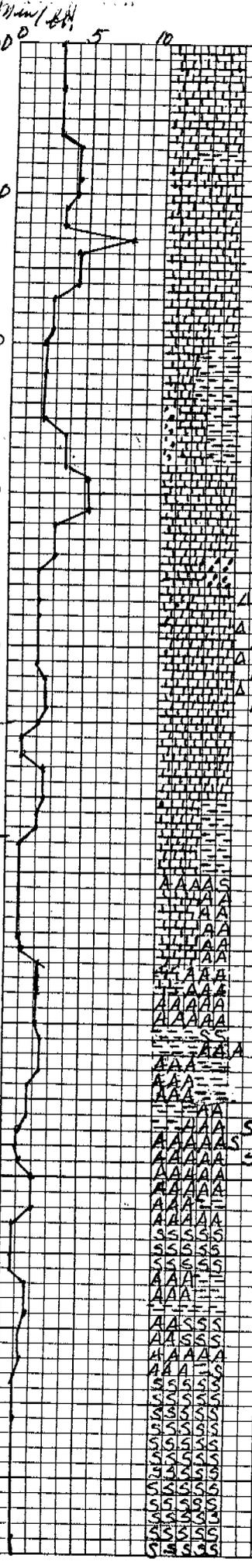
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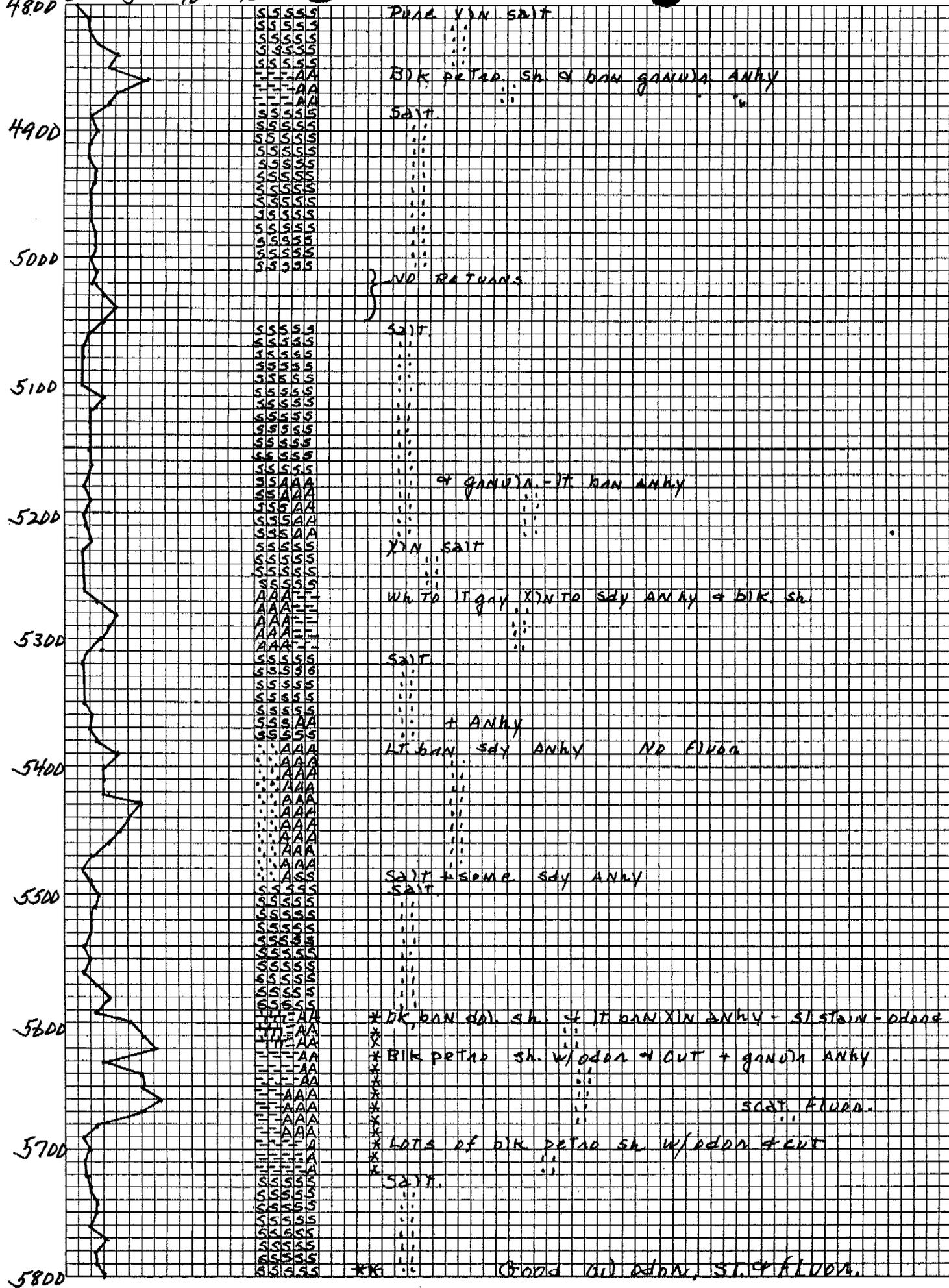
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DK BAN XIN dpl.
 * AT BAN XIN TO SL CHALKY MS W/ SALT LIVE FLUID - NO CUT
 SOME BIK PETRO SH.
 BIK DNS MS W/ OIL DOWN - NO FLUID
 LT TAN SEC TO SL CHALKY MS
 W/ DULL FLUID & GAS ODOOR
 BIK DNS MS W/ SOME CHALKY MS & SOME BIK PETRO SH.
 GRAY DTY MS, BIK & GRAY CALC SH
 LT GRAY SDY MS & BIK CALC SH
 * BIK PETRO MS W/ GAS ODOOR
 * BIK & LT GRAY SL SEC MS W/ DOWN
 LT GRAY HA YEG DOL SS & SDY DOL
 LT BAN DTY TO SL SEC DOL
 DK BAN & GRAY SEC MS + CH
 DK BAN TO BIK DOL & LT BAN MS + CH
 * DK BAN SEC DOL & TAN MS, W/ SCAT FLUID & GOOD CUT
 W/ OIL, ST & ODOOR
 DK BAN DNS DOL & MS + SOME BIK SH
 SOME WH XIN ANHY + SALT?
 DK BAN DOL & ANHY + SALT?
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 BIK SH & SALT
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 ANHY & BIK PETRO SH
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 SALT?
 WH XIN ANHY & BIK SH
 * BIK PETRO SH W/ STRONG GAS ODOOR - NO CUT
 GRAN ANHY + SALT
 ANHY & DK SH
 SALT (XIN)

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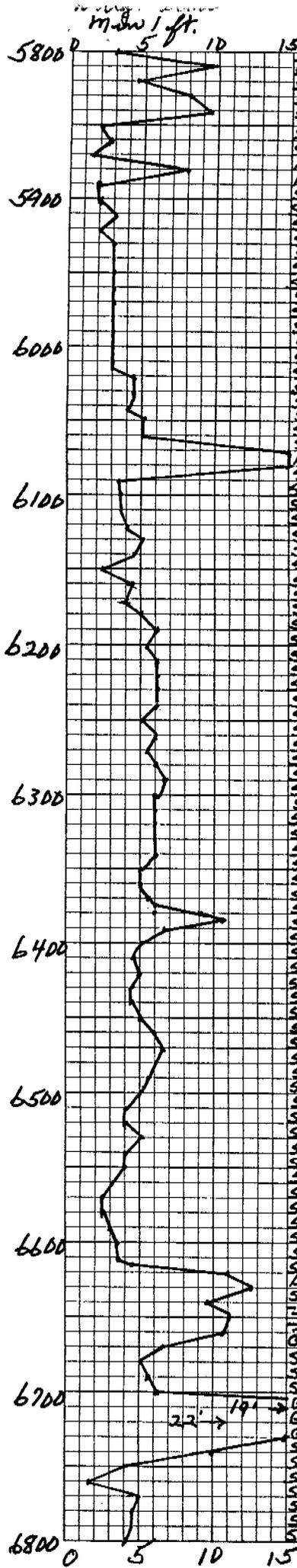
46 0862

5 X 5 1 1/2 INCH * 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

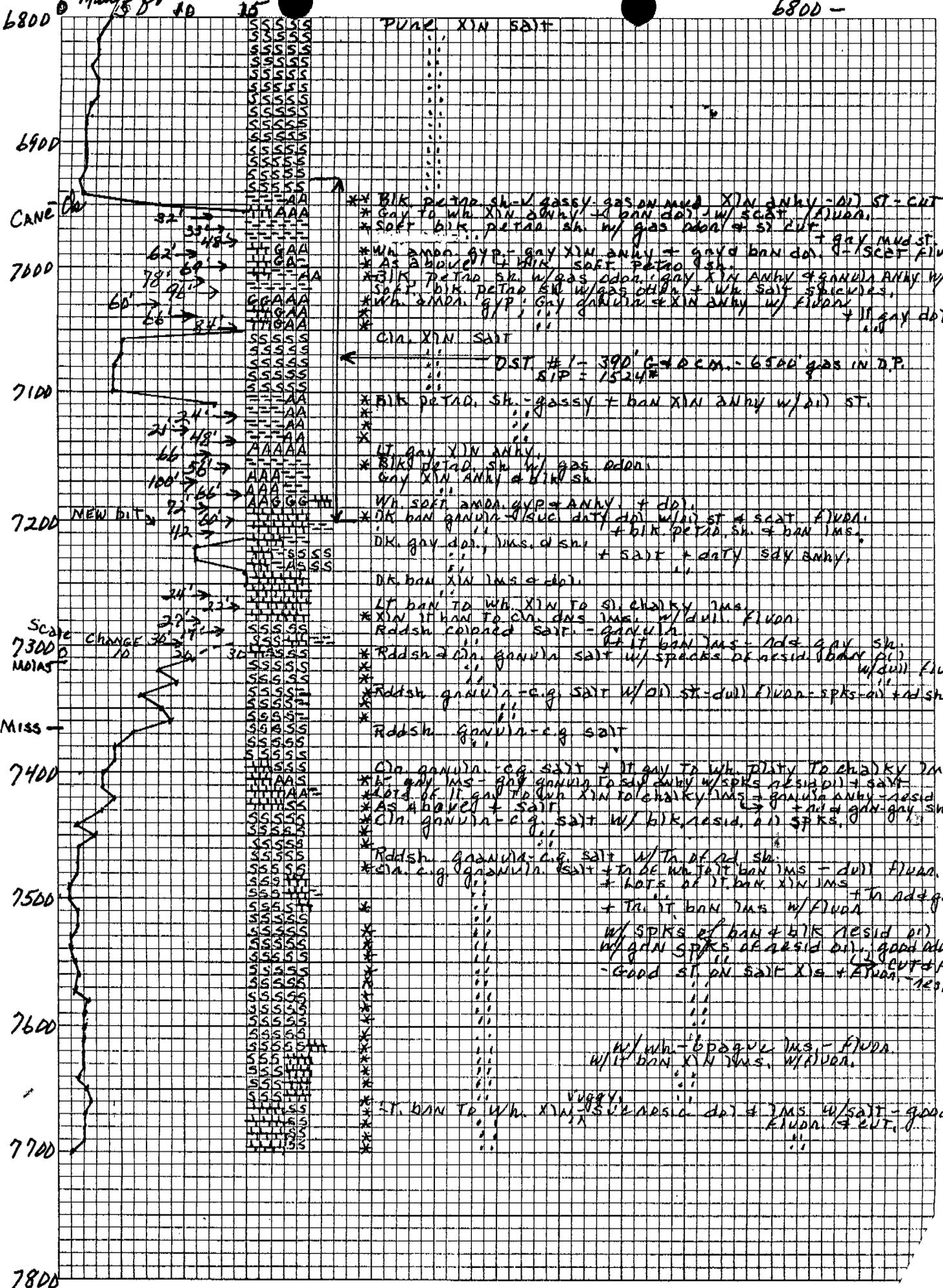
K&E

WON 11/25A #3-36A

5800' - 6800'



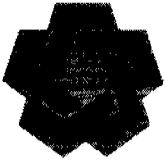
* * BAN XIN TO GRANUL. ANHY W/ GOOD OIL ST. FLUOR. & CRT.
 * * + some suc. (oil) - OIL IN SAMPLES.
 SALT
 ANHY - GRANUL. W/ FLUOR. + ST. - SALT
 SALT
 ← Cas. ← SET 7 3/8" CASING AT 5910' KR
 + Vlg. ANHY W/ SALT INC. Dng 6 1/2" Hole
 * + dk BAN TO GRAY SITY ANHY W/ SCAT GRAN FLUOR.
 * CIA. XIN SALT.
 * + some GRANUL. SALT + ANHY W/ SCAT GRAN FLUOR.
 * - good FLUOR + OIL ST.
 * DITY BAN SALT + MUDDY ANHY
 * CIA. XIN SALT + OIL SALT PATR. SH. W/ GAS OIL + good CUT
 + Wk amon. gyp + dity salt anhy
 * DITY GRAY MUDDY GRANUL. ANHY W/ OIL + SCAT FLUOR. SOIL GAS
 * * W/ amon. gyp, GRANUL. DITY SALT + ANHY + blk. PATR. SH. - good FLUOR + CUT
 * GRAY MUDST. W/ SALT INC. + Wk amon. gyp, BAN XIN ANHY. - good FLUOR
 * * GYP + SALT.
 * DITY GRAY SALT
 * Wk amon. gyp, GRANUL. ANHY + BAN XIN ANHY. W/ SCAT FLUOR.
 * * MOSTLY SALT
 * PURE XIN SALT



46 0862

5 X 5 TO 1/2 INCH * 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

K&E



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

May 5, 1982

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Clerk of Public Safety, Division Director

RECEIVED
MAY 13 1982

DIVISION OF
OIL, GAS & MINING

Megadon Enterprises, Inc.
57 West South Temple
Salt Lake City, Utah 84101

Re: Well No. Lion Mesa Unit #3-36A
Sec. 36, T. 27S, R. 21E.
San Juan County, Utah

Gentlemen:

The above referred to well has been under an operation suspended status for six months. Please inform this office of the current status of the well Location.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

Dear Cari,

The subject well is still in a suspended category since we plan to recover as much of the 7 7/8" casing as possible before plugging & abandoning. The location has been cleaned, recontoured and the pit filled in. Some of the participants still haven't made up a decision on this well and we are waiting for their reply

Sincerely
H. Don Guigley

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. ML-30952
1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR MEGADON ENTERPRISES, INC.		7. UNIT AGREEMENT NAME LION MESA
3. ADDRESS OF OPERATOR STE. 253, 57 WEST SOUTH TEMPLE, SALT LAKE CITY, UTAH 84101		8. FARM OR LEASE NAME STATE
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SE. SW. SECTION 36-27S-20E, SLM. 2120' FROM W-LINE AND 500' FROM S-LINE		9. WELL NO. #3-36A
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT WILDCAT
15. ELEVATIONS (Show whether DV, ST, OR, etc.) 5862' GRD; 5880' K.B.		11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA SE. SW. SEC. 36-27S-20E ✓ SLM
16. COUNTY OR PARISH		18. STATE UTAH
17. COUNTY OR PARISH SAN JUAN		18. STATE UTAH

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"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) PULL CASING	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>
FULL OR ALTER CASING	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	ABANDONMENT*	<input checked="" type="checkbox"/>
CHANGE PLANS	<input type="checkbox"/>		<input checked="" 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.)

IT IS PLANNED TO PULL AS MUCH AS POSSIBLE OF THE 7 7/8" CASING IN THE ABOVE HOLE. THE 7 7/8" CASING WAS SET AT 5910' AND THE CEMENT PLUG INSIDE WAS TAGGED AT 5848'. THE CASING WILL BE CUT OFF AT A POINT ABOVE THE CEMENT OR FREE-POINT AND PULLED FROM THE HOLE. CEMENT PLUGS WILL BE PLACED AS FOLLOWS:

1. A CEMENT PLUG (50 SKS), 200 FT. LONG, PLACED ACROSS TOP OF CUT OFF CASING
2. A CEMENT PLUG (50 SKS), 200 FT. LONG, WILL BE PLACED AT 1100' TO 900', ACROSS BOTTOM OF 9 5/8" SURFACE CASING AT 1010'
3. A CEMENT PLUG (10 SKS), PLACED IN TOP OF SURFACE CASING WITH WELL MARKER.

THE LOCATION HAS BEEN CLEANED, RECONTOURED, AND SEEDED.

[REDACTED]

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 1/10/83
BY: [Signature]

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

SIGNED [Signature] TITLE PRESIDENT DATE 1-3-83

(This space for Federal or State office use)

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

Ut State 1/3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.
ML-30952

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL GAS WELL OTHER

7. UNIT AGREEMENT NAME

LION MESA

2. NAME OF OPERATOR
MEGADON ENTERPRISES, INC.

8. FARM OR LEASE NAME

STATE

3. ADDRESS OF OPERATOR
STE. 253, 57 WEST SOUTH TEMPLE, SALT LAKE CITY, UTAH 84101

9. WELL NO.

#3-36A

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

10. FIELD AND POOL, OR WILDCAT

WILDCAT

SE. SW. SECTION 36-27S-20E, SLM.
2120' FROM W-LINE AND 500' FROM S-LINE

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

SE. SW. SEC. 36-27S-20E.

SLM

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, BT, OR, etc.)

5862' GRD; 5880' K.B.

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDISE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) PULL CASING

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(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.) *

IT IS PLANNED TO PULL AS MUCH AS POSSIBLE OF THE 7 5/8" CASING IN THE ABOVE HOLE. THE 7 5/8" CASING WAS SET AT 5910' AND THE CEMENT PLUG INSIDE WAS TAGGED AT 5848'. THE CASING WILL BE CUT OFF AT A POINT ABOVE THE CEMENT OR FREE-POINT AND PULLED FROM THE HOLE. CEMENT PLUGS WILL BE PLACED AS FOLLOWS:

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- * 2. A CEMENT PLUG (50 SKS), 200 FT. LONG, WILL BE PLACED AT 1100' TO 900', ACROSS BOTTOM OF 9 5/8" SURFACE CASING AT 1010'
3. A CEMENT PLUG (10 SKS), PLACED IN TOP OF SURFACE CASING WITH WELL MARKER.

THE LOCATION HAS BEEN CLEANED, RECONTOURED, AND SEEDED.

* A cement plug (minimum 100' in length) should be placed at top of Rico at 2700' to isolate Cutler and Hermosa groups.

4/10/83
[Signature]

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

SIGNED

[Signature]

TITLE PRESIDENT

DATE 1-3-83

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 12, 1983

Megadon Enterprises, Inc.
57 West South Temple, Suite 253
Salt Lake City, Utah 84101

Re: Well No. Lion Mesa State # 3-36A
Sec. 36, T. 27S, R. 20E.
San Juan County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Well Records Specialist

CF/cf
Enclosure

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

M

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.)		5. LEASE DESIGNATION AND SERIAL NO. ML-30952	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME LION MESA UNIT	
2. NAME OF OPERATOR MEGADON ENERGY CORPORATION		8. FARM OR LEASE NAME STATE	
3. ADDRESS OF OPERATOR 57 WEST SOUTH TEMPLE, SALT LAKE CITY, UTAH 84101		9. WELL NO. ST. #3-36A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SE. SW. SECTION 36-27S-20E.		10. FIELD AND POOL, OR WILDCAT WILDCAT	
14. PERMIT NO.		11. SEC., T., R., M., OR B.L.E. AND SURVEY OF AREA SE. SW. SEC. 36-27S-20E. SLM.	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5862' GRD; 5880' K.B.		12. COUNTY OR PARISH SAN JUAN	13. STATE UTAH

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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) INFORMATION <input checked="" 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.)

KENAI RIG #3 SPUDDED IN THE OFF-SET WELL ON JUNE 29, 1981 LOCATED 35' EAST OF THE LION MESA #3-36 WELL WHICH WAS LOST DUE TO FISH IN THE HOLE. THE SUBJECT WELL IS ON THE SAME LOCATION, USING THE SAME DRILLING PLAN, AND PROGNOSIS, RESERVE PIT, ETC., AS WAS USED FOR THE #3-36 WELL.

RECEIVED
MAR 16 1983

DIVISION OF
OIL, GAS & MINING

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

SIGNED W. D. Samsbury TITLE PRESIDENT DATE JUNE 30, 1981

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: