

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other -----

2. Name of Operator

DEVON ENERGY CORPORATION (NEVADA)

3. Address and Telephone No.

20 NORTH BROADWAY, SUITE 1500, OKLAHOMA CITY, OKLAHOMA 73102 (405) 235-3611

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FSL & 1980' FWL, Unit K, Section 14-T23S-R31E, Eddy Cnty, NM

5. Lease Designation and Serial No.

NM-NM0404441

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

TODD "14K" FEDERAL #1

9. API Well No.

30-015-20298

10. Field and Pool, or Exploratory Area

Sand Dunes (Lower Penn)

11. County or Parish, State

Eddy Cnty, New Mexico

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Abandonment

☐ Recompletion

☒ Plugging Back

☐ Casing Repair

☐ Altering Casing

☐ Other _____

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

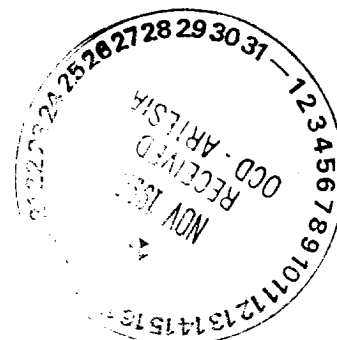
☐ Dispose Water

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

13. 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.)*

In the near future, Devon Energy Corporation (Nevada) plans to workover the Todd "14K" Federal #1 and plug back from the Morrow/Atoka to the Wolfcamp and Third Bone Spring zones. The recent attempt to return this well to production failed after the ESP stuck in the well bore at 11,649' due to severe scaling. We do not expect much trouble fishing the ESP from the hole. Attached please find the following.

1. Engineer's workover procedure
2. Theta down hole pump analysis
3. Current well bore schematic
4. Structural maps
5. Production curves
6. Copies of log sections



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

Signed Candace R. Graham

Candace R. Graham

Title Engineering Technician

Date November 9, 1998

(This space for Federal or State office use)

(ORIG. SGD.) DAVID R. GLASS

PETROLEUM ENGINEER

NOV 13 1998

Approved by _____

Title _____

Date _____

Conditions of approval, if any: _____

DEVON ENERGY CORPORATION

Interoffice Correspondence

10/14/98 1:58 PM

TO: Rick Clark

FROM: W. M. Frank

RE: Recompletion Procedure
Todd 14 "K" Federal #1
1980' FSL & 1980' FWL
Section 14-T23S-R31E
Eddy County, New Mexico

Elevation 3484' GL 3511' KB

TD - 16550'
PBDT - 15550' CIBP, Top of Fish @ 11233'

Casing - 20" 94# @ 625' Cement Circulated
- 13-3/8" 54.4, 61, 68, & 72# @ 4455' Cement Circulated
- 9-5/8" 43.5, 47# SOO95 @ 12562' TOC @ 3,140'
- 7-5/8" 39# P-110 Liner f/11649 - 15584' Cmt w/840 sx

Procedure

1. MIRU DDP. ND tree and NU BOPE.
2. TIH PU tubing that is laying on ground to 11,233' (± 27 jts).
3. POOH standing back tubing. PU and TIH w/fishing BHA, including jars and bumper-sub, to $\pm 11,233'$. Before engaging fish determine PU weight. Engage fish and jar fish from hole. POOH w/fish.
4. PU and TIH w/7 5/8", 39# casing scrapper $\pm 13,029'$. POOH and LD scrapper and BHA.
5. MIRU electric line unit. PU and TIH w/7 5/8", 39# junk basket to 13,000'. (NOTE FLUID LEVEL IN WELL FOR STEP #6.) POOH w/junk basket. PU and TIH w/7 5/8", 39#, 10K, CIBP. Set 10K CIBP @ 13,000'. POOH.

6. TIH w/4" select fire perf gun loaded w/37 gm charges (0.5" EHD, 37" TTP). Perforate as follows:

11566 – 570'	1 spf	5 shots
11582 – 597'	1 spf	16 shots
11734'	1 spf	1 shot
11742'	1 spf	1 shot
11750'	1 spf	1 shot
11753'	1 spf	1 shot
11756'	1 spf	1 shot
11760'	1 spf	1 shot
11764'	1 spf	1 shot
11770 – 782	1 spf	13 shots

7. TIH w/Baker MAX Packer, On/Off tool, and tubing to 11,450'. Hydrotest tubing in hole to 6,000 psig.
8. RU and swab well in. If well will not flow, swab well to determine fluid influx/hour. Be rigged up to sample fluid and test for oil cut. If necessary a stimulation prog will be forwarded later.
9. Release from On/Off tool to equalize fluid. Engage On/Off tool. Release packer and POOH w/same.
10. PU and TIH with a RBP equipped with a ball catcher to 11,450'. Set RBP and test casing to 500 psig. POOH standing back tubing.
11. MIRU electric line unit. TIH w/4" select fire perf gun loaded w/37 gm charges (0.5" EHD, 37" TTP). Perforate as follows:

10766 – 782'	1 spf	17 shots
10800 – 814'	1 spf	15 shots
10828 – 832	1 spf	5 shots
10856 – 868'	1 spf	13 shots
10892 – 904'	1 spf	13 shots
10914 – 926	1 spf	13 shots
10968 – 992'	1 spf	25 shots
11016 – 020	1 spf	5 shots
11034 – 044'	1 spf	11 shots
11084 – 088'	1 spf	5 shots
11090 – 122	1 spf	33 shots

12. TIH w/Baker MAX Packer, On/Off tool, and tubing to 10,650'.

13. RU and swab well in. If well will not flow, swab well to determine fluid influx/hour. Be rigged up to sample fluid and test for oil cut. If necessary a stimulation prog will be forwarded later.
14. Release from On/Off tool to equalize fluid. Engage On/Off tool. Release packer and POOH w/same.
15. PU and TIH with a RBP pulling tool to 11,450'. Engage RBP and POOH laying down tubing.
16. PU and TIH w/reentry guide, SN, 17 jts 2 7/8" L-80 tubing, 9 5/8" TAC, and ±349 jts 2 7/8" L-80 tubing. Set TAC @ ±10,650' and SN @ ±11150'. Set TAC and hang off tubing. NU pumping tee.
17. PU and TIH w/1 ½" insert pump, 2,175' of 7/8" Norris 97 rods, 3,325' of 1" Norris 97 rods, and 5,500' of 1 ¼" Norris Fiberglass rods. Set pump, load and test tubing.
18. RDMO DDPU.
19. MIRU 640-365-168 pumping unit w/base equipped with a 40 hp electric motor.
20. Hang well on pumping unit and put to test. Shoot fluid levels every other day. Report production daily.

INPUT DATA

Strokes per minute: 8.0 Fluid level
 Run time (hrs/day): 24.0 (ft from surface): 11000
 Tubing pres. (psi): 200.0 (ft over pump): 0
 Casing pres. (psi): 50.0 Stuf.box fr. (lbs): 100

Fluid properties

Motor & power meter

Water cut: 66% Power meter: Detent
 Water sp. gravity: 1.18 Electr. cost: \$.06/KWH
 Oil API gravity: 40.0 Type: NEMA D
 Fluid sp. gravity: 1.059

Unit: American "The Producer"; SN contains: "42"

API size: C-640-365-168 (unit ID: CAP2)
 Crank hole #3 (out of 3)
 Calculated stroke length (in): 120.8
 Rotation with well to right: CCW
 Max. CB moment (M in-lbs): Unknown
 Structural unbalance (lbs): -1180
 Crank offset angle (deg): 0.0

Tubing and pump information

Tubing O.D. (in): 2.875 Rod-tub. frict.: 0.50(up)
 Tubing I.D. (in): 2.441 0.50(dn)

Pump depth (ft): 11000.0 Tub.anch.depth (ft): 10650
 Pump condition: Full Pump load adj. (lbs): 0
 Pump type: Insert Pump vol. efficiency: 85%
 Plunger size (in): 1.5

Rod string design (rod tapers calculated)

Diameter (inches)	Rod Grade	Length (ft)	Tensile Strength (psi)
+ 1.25	Morris FG	5500	N/A
+ 1.0	Morris97	3325	145000
0.875	Morris97	2175	145000

+ Requires slimhole couplings.

CALCULATED RESULTS

Peak pol. rod load (lbs): 29749 Balanced minimum
 Min. pol. rod load (lbs): 14630 required motor HP: 27.5
 System eff. (Motor->Pump): 46% Polished rod HP: 17.5
 Fluid load on pump (lbs): 9181 Unit struct. loading: 82%
 Buoyant rod weight (lbs): 17545 M/No': 0.522, Fo/SKr: 0.810
 Production rate (BFPD): 131

Required prime mover size

(speed var. not included) BALANCED

NEMA D motor: 40 HP
 Single/double cyl. engine: 30 HP
 Multicylinder engine: 40 HP

Torque analysis and

electricity consumption BALANCED

Peak g'box torq. (M in-lbs): 296
 Gearbox loading: 46%
 Cyclic load factor: 1.41
 Max. CB moment (M in-lbs): 1404.11
 Counterbalance effect (lbs): 22618
 Daily electr. use (KWH/day): 439
 Monthly electric bill: \$803
 Electr. cost per bbl. fluid: \$0.202
 Electr. cost per bbl. oil: \$0.593

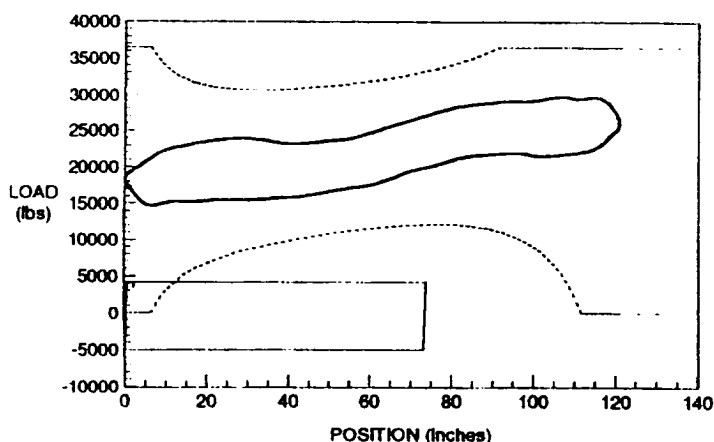
Tubing, pump and plunger calculations

Tubing stretch (in): 0.7
 Prod. loss due to tubing stretch (BFPD): 1
 Gross pump stroke (in): 74
 Pump spacing (in. from bottom): 71.5
 Minimum pump length (ft): 25.1
 Recommended plunger length (ft): 6.0

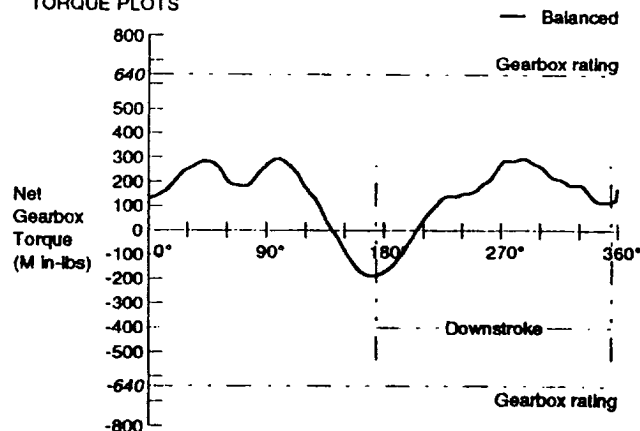
Rod string stress analysis (service factor: 1.0)

Stress Load %	Top Maximum Stress (psi)	Top Minimum Stress (psi)	Bot. Minimum Stress (psi)	Stress Calc. Method
72%	24160	12003	6494	Morris FG
59%	28921	10146	-115	API MG
59%	21350	-151	-5624	API MG

Todd 14 "K" Fed. #1
 PREDICTED DYNAMOMETER PLOTS
 — Predicted surface dyna. card
 — Downhole dynamometer card
 - - - Permissible load diagram

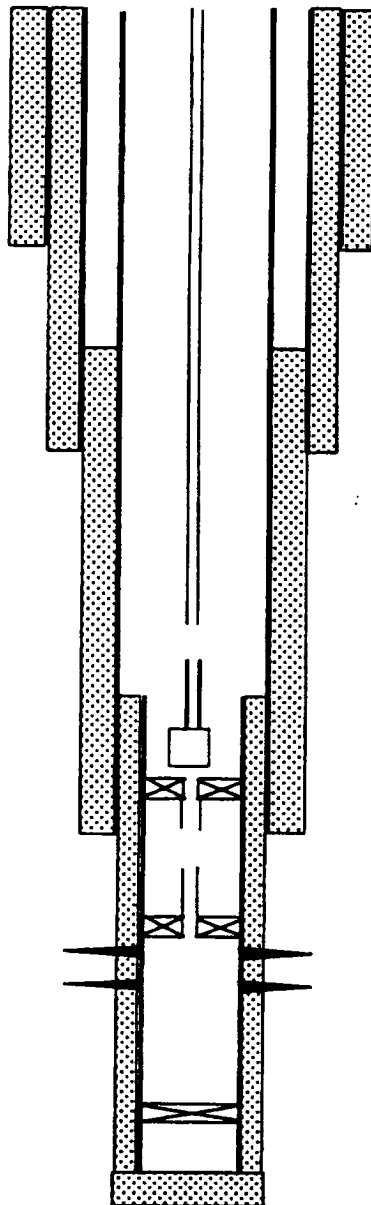


TORQUE PLOTS



DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: Todd 14 "K" Federal #1			FIELD: Sand Dunes (LOWER PENN)			
LOCATION: Section 14, T23S, R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3484' - KB=3511'			SPUD DATE: 6/9/70		COMP DATE: 12/10/70	
API#: 30-015-20298		PREPARED BY: W. M. Frank			DATE: 9/30/98	
TUBULARS	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 625'	20"	94			26"
CASING:	0' - 4455'	13 3/8"	72,68,61,54.5			17 1/2"
CASING:	0' - 12562'	9 5/8"	43.5 / 47	SOO95	Triple Seal	12 1/4"
LINER:	11649' - 15584'	7 5/8"	39	P110	HYDRIL TS	8 1/2"
TUBING:	0' - 10393'	2 3/8"	5.95	N80 / P105	8rd	



CURRENT



PROPOSED

CASING TESTED TO 1500 PSIG ON 7/14/98

20" CASING, CMT'D W/1060 SXS. CEMENT. TO SURFACE.

13 3/8" CASING, CMT'D W/3400 SXS. CEMENT. TO SURFACE.

Fish in Hole:

20' of cut off jt 2 3/8", 5.95#, N80 TUBING - Top @ ±11,233'

Drain Sub

2 JTS 2 3/8", 5.95#, N80 TUBING

Check Valve

10 JTS 2 3/8", 5.95#, N80 TUBING

ESP pump assembly @ 11636'

Also in hole: ±1,500' of cable, ±1,500' of 3/8" capillary tube, & Jet cutter tool

BAKER RETRIEVA "D" PACKER @ 13029'

4 1/2" x 2 3/8" XO

4.2' - 2 3/8" N80 PUP JOINT

1.625" ID "S" NIPPLE

WIRELINE REENTRY GUIDE

9 5/8" CASING, CMT'D w/3100 SXS IN 2 STAGES. TOC @ 3140'.

PKR @ 13924' w/SEAL ASS. & 2 7/8" HYDRIL TBG FISH. TOF @ 13250'.

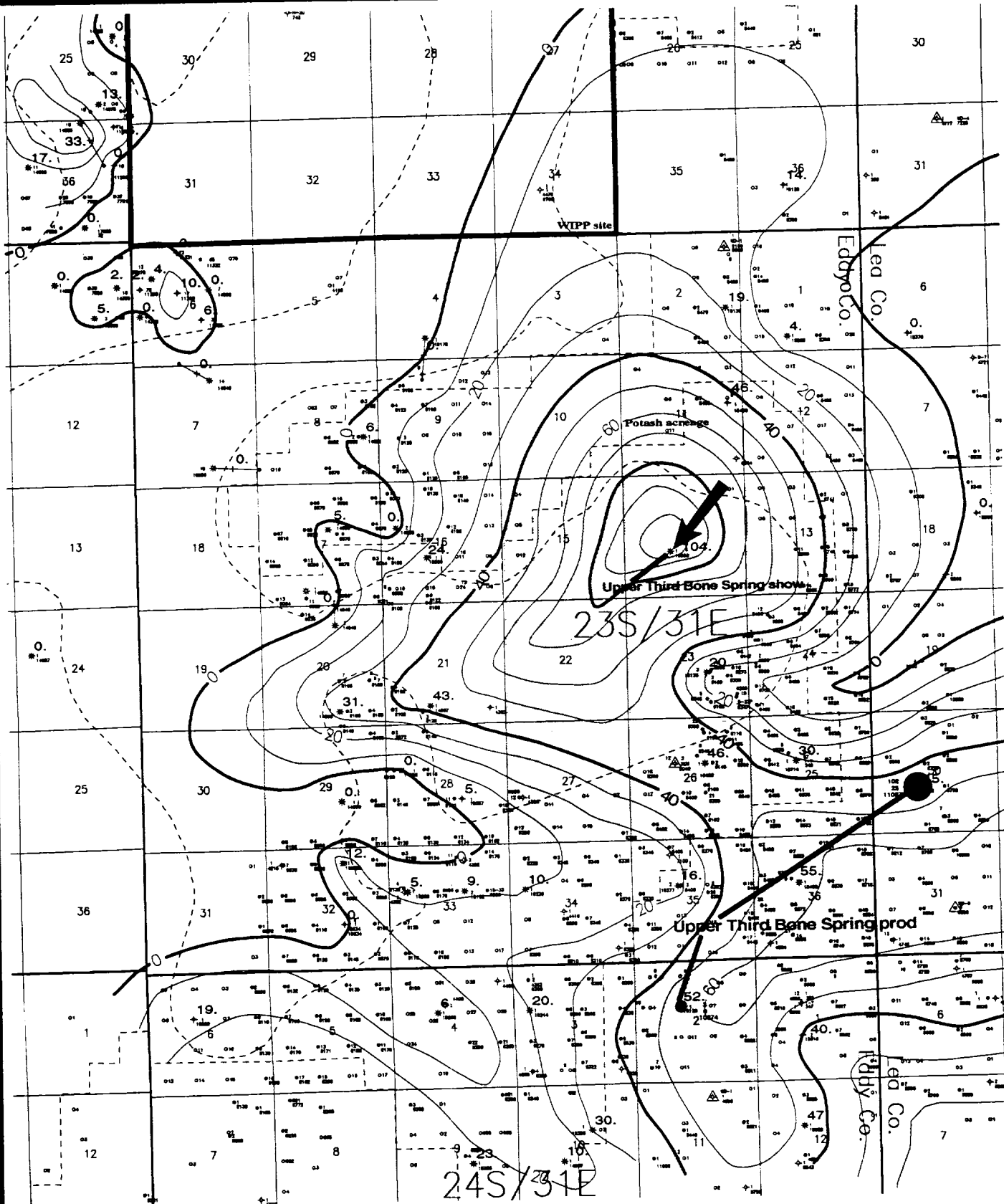
ATOKA PERFS: 14051, 53, 58, 60, 62, 64, 66, 76'.

MORROW REPERF: 14718.5, 19.5, 24.5, 25.5, 35.5, 36.5, 37.5, 38.5, 39.5, 40.5, 28.5, 49.5, 53.5, 54.5, 55.5, 56.5, 58.5, 59.5, 66.5, 67.5, 69.5, 70.5, 71.5, & 72.5, (3 JSPF).

MORROW PERFS: 14719, 25, 36, 38, 40, 49, 54, 56, 59, 67, 70, & 72'.

CIBP @ 15550'

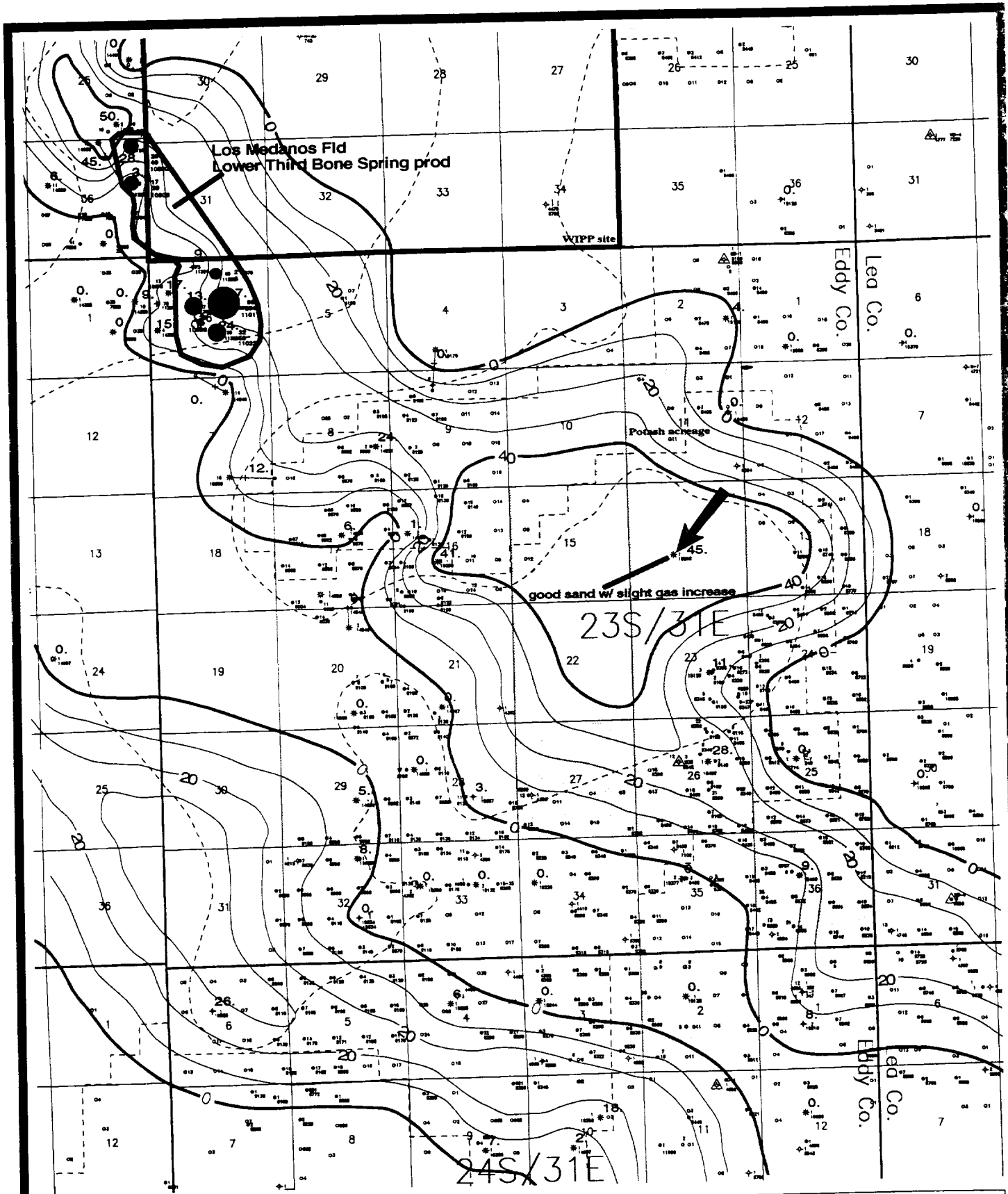
7 5/8" LINER, CMT'D w/840 SXS. SQZD w/100 sxs & TESTED TO 4500# TD @ 16550'. PLUGGED BACK TO 15580' w/CEMENT.



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INGLE WELLS/SAND DUNES
Eddy & Lea Counties, New Mexico
Third Bone Spring, Upper Net Lime

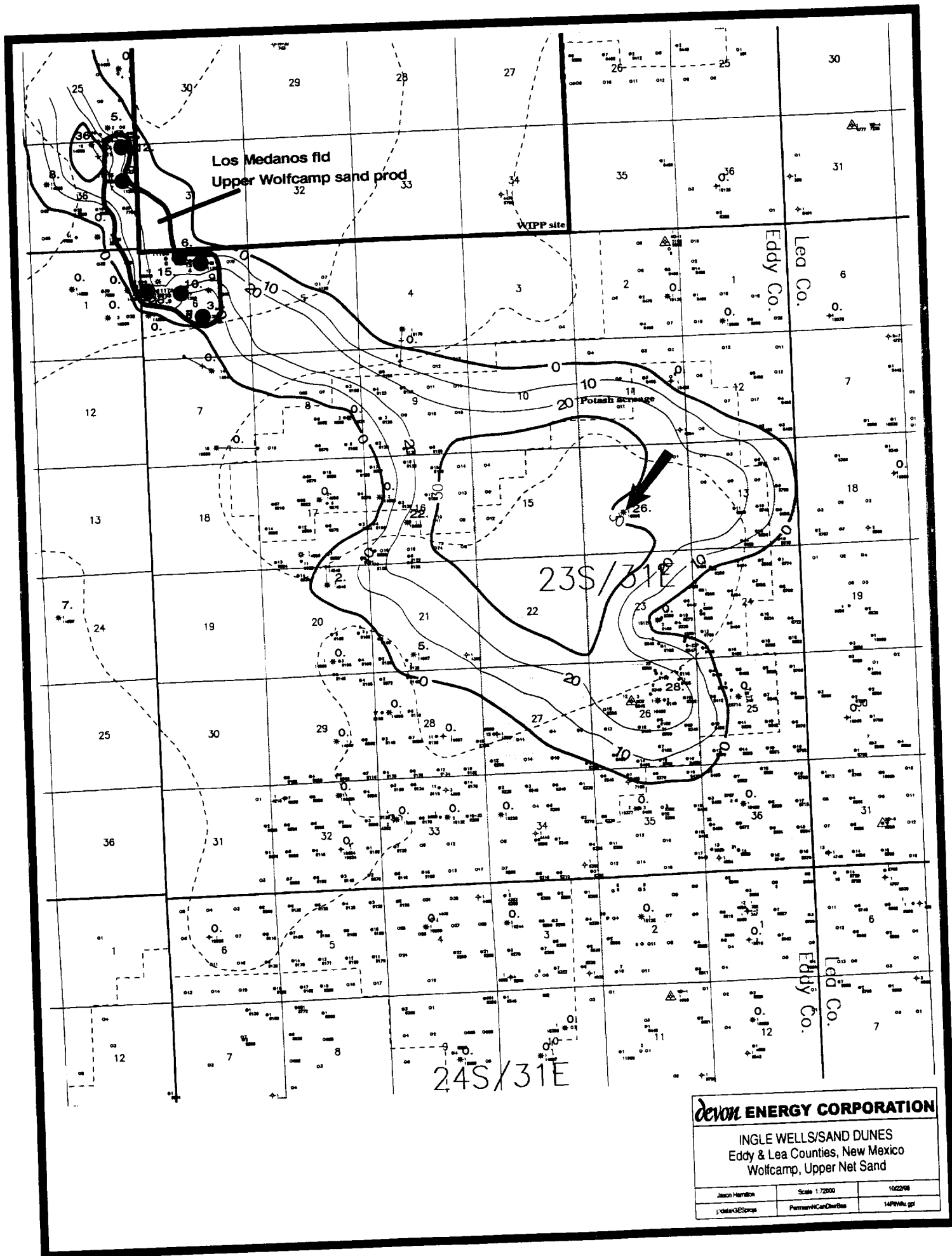
Jason Harville	Scale 1:72000	10/22/98
data: GCSprg	Permian-H&C&C&S	14P1135u.gtl



devon ENERGY CORPORATION

INGLE WELLS/SAND DUNES
Eddy & Lea Counties, New Mexico
Third Bone Spring, Lower Net Sand

Jason Harrison	Scale 1:72000	102258
1/2 acre OESpace	Permian NCCan/DurBox	14PTBES.gri

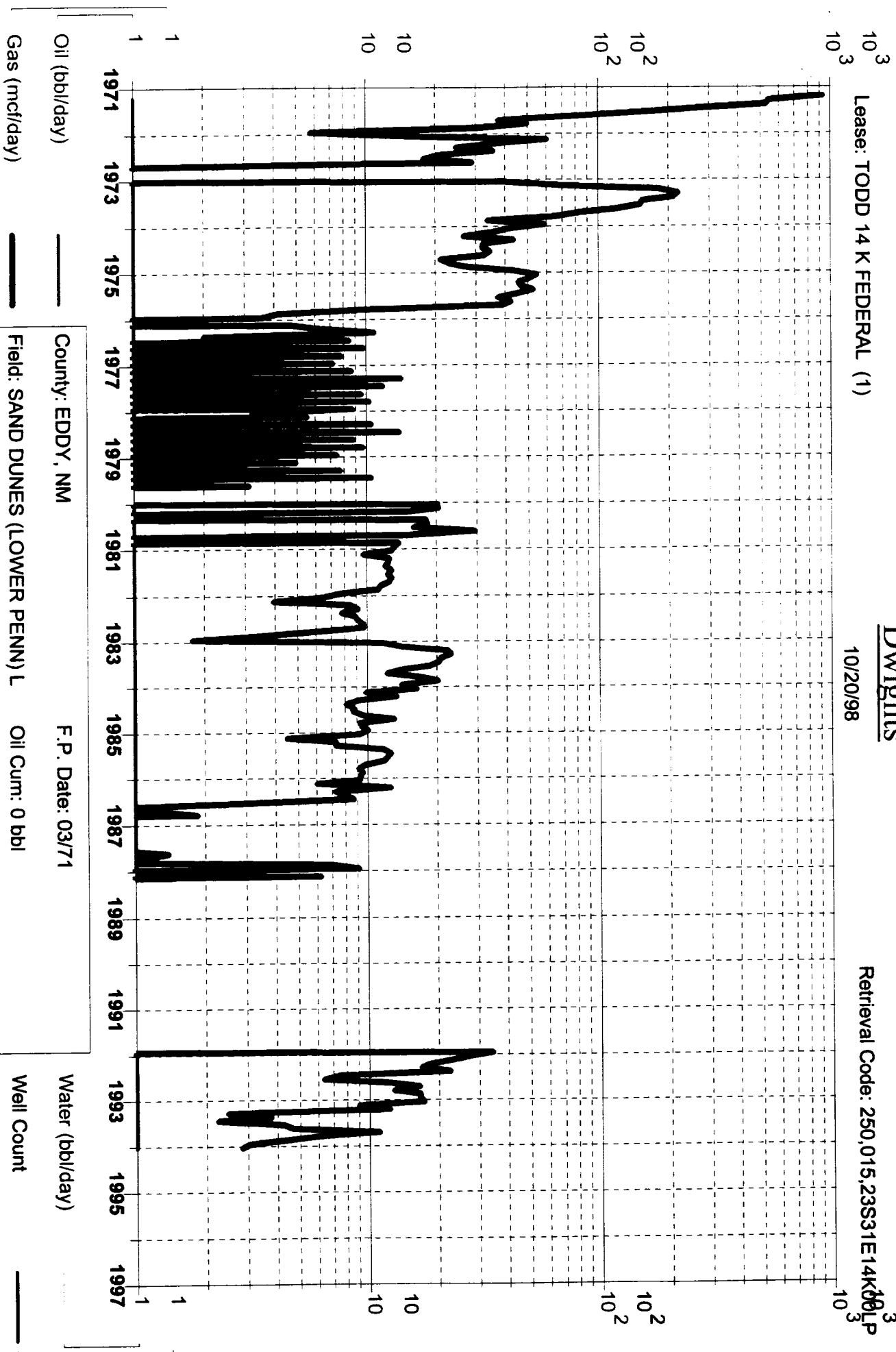


Dwights

Lease: TODD 14 K FEDERAL (1)

10/20/98

Retrieval Code: 250,015,23S31E14K00LP



Oil (bbl/day)

Gas (mcf/day)

County: EDDY, NM

Field: SAND DUNES (LOWER PENN) L

Reservoir: LOWER PENN

Operator: DEVON ENERGY CORP

F.P. Date: 03/71

Oil Cum: 0 bbl

Gas Cum: 197.6 mmcf

Location: 14K 23S 31E

Water (bbl/day)

Well Count

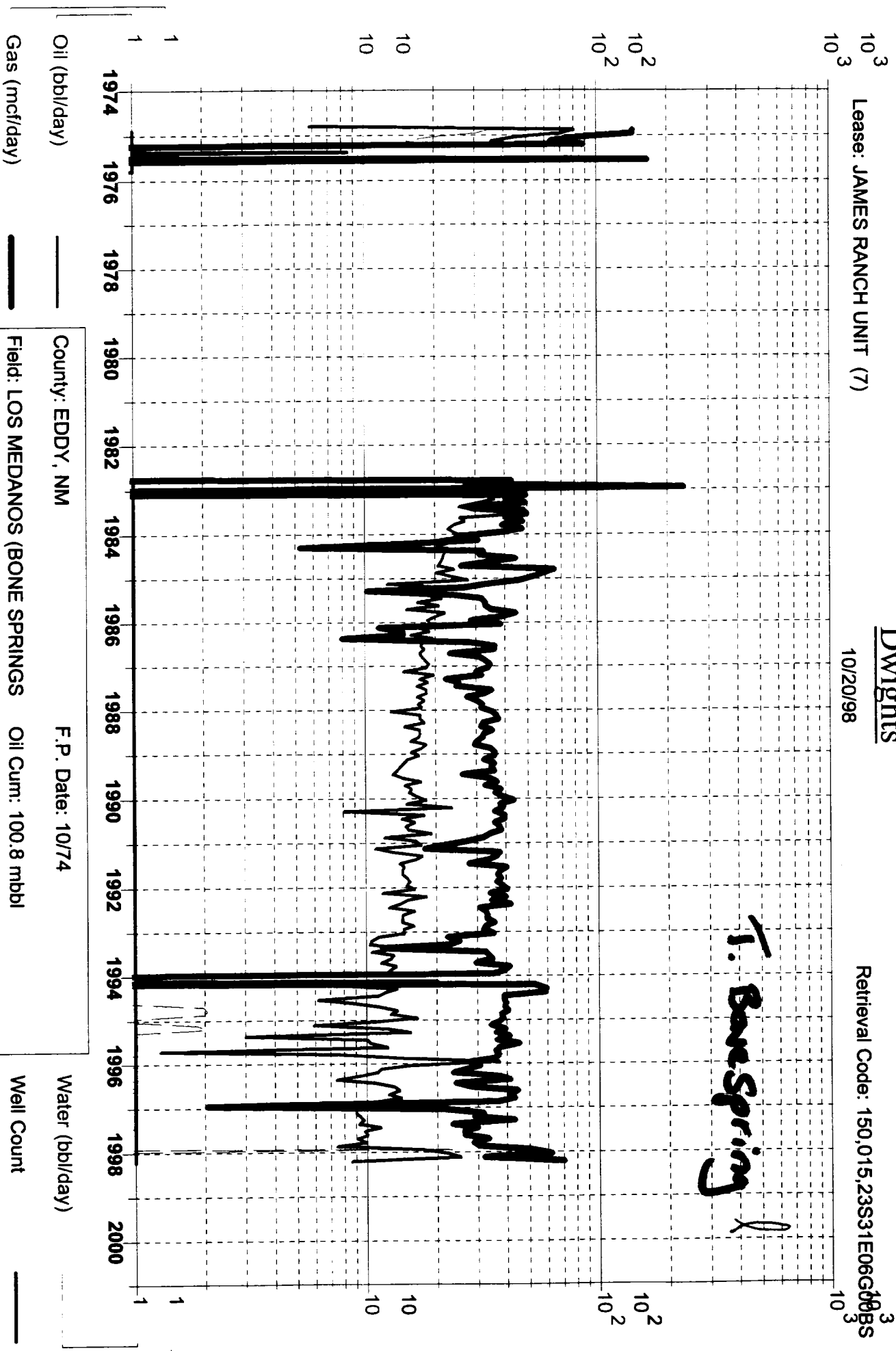
Dwights

Lease: JAMES RANCH UNIT (7)

10/20/98

Retrieval Code: 150,015,23S31E06G100BS

T. Bone Springs



Oil (bbl/day)

Gas (mcf/day)

County: EDDY, NM

Field: LOS MEDANOS (BONE SPRINGS)

Reservoir: BONE SPRINGS

Operator: BASS ENTERPRISES PROD

F.P. Date: 10/74

Oil Cum: 100.8 mbbl

Gas Cum: 217.9 mmcf

Location: 6G 23S 31E

Water (bbl/day)

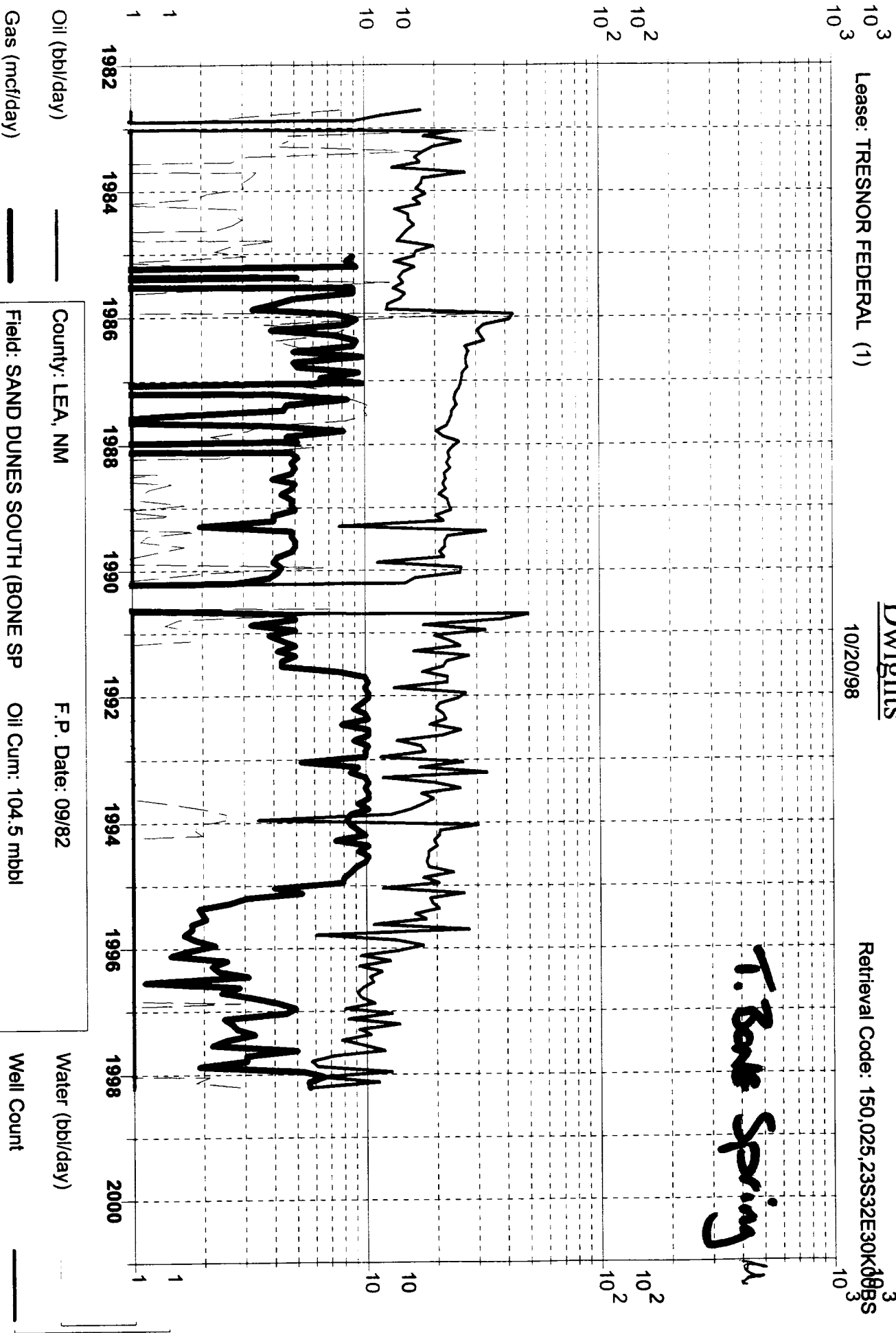
Well Count

Lease: TRESNOR FEDERAL (1)

Dwights
10/20/98

Retrieval Code: 150,025,23S32E30K00BS

T. Bone Spring



Oil (bbt/day)

Gas (mcf/day)

County: LEA, NM

Field: SAND DUNES SOUTH (BONE SP)

Reservoir: BONE SPRING

Operator: MITCHELL ENERGY CORP

F.P. Date: 09/82

Oil Cum: 104.5 mbbl

Gas Cum: 26.59 mmcf

Location: 30K 23S 32E

Water (bbt/day)

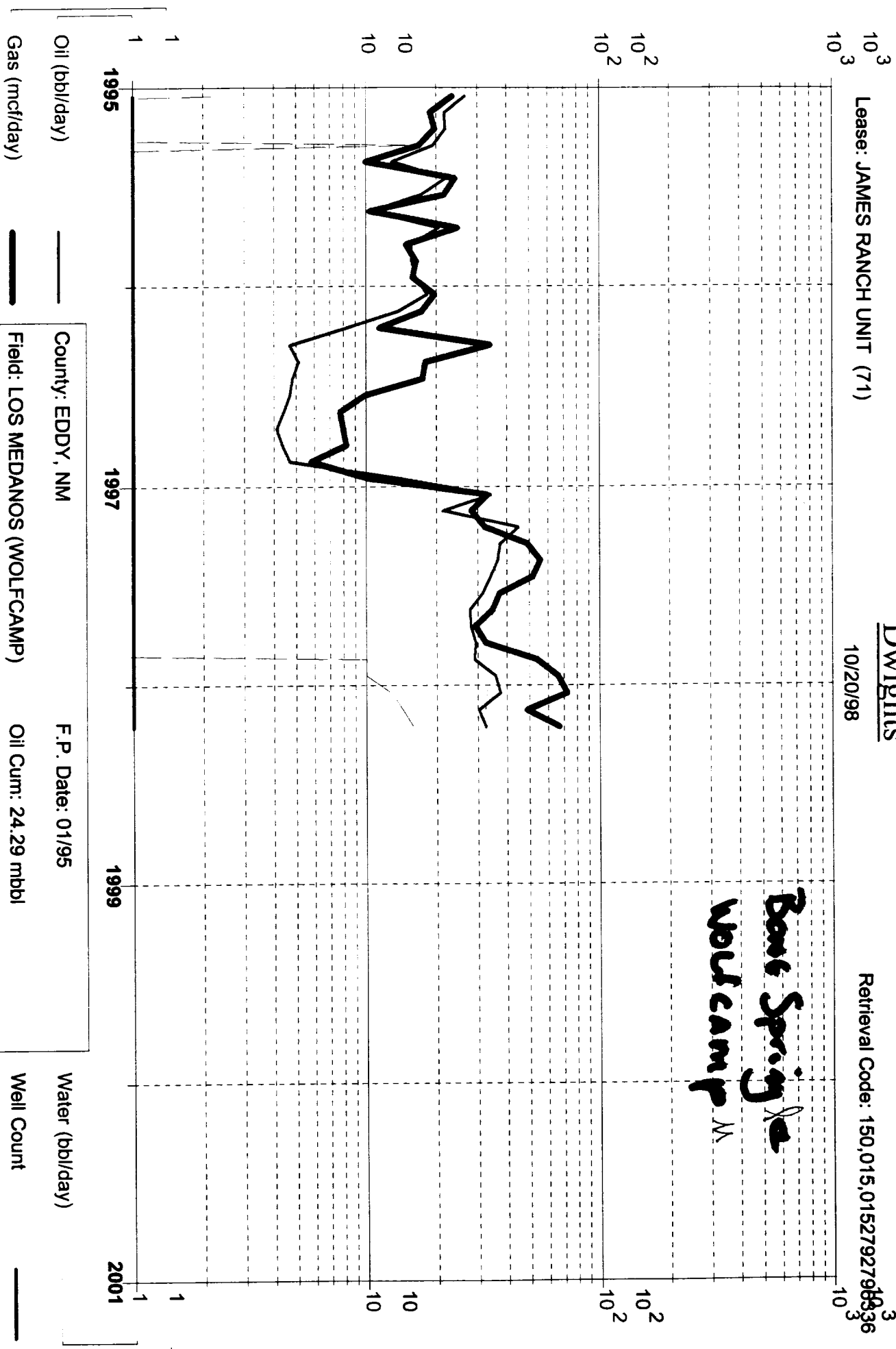
Well Count

Lease: JAMES RANCH UNIT (71)

Dwights
10/20/98

Retrieval Code: 150,015,015279279836

*Bass Springs
Wolfcamp M.*



County: EDDY, NM

F.P. Date: 01/95

Water (bbbl/day)

Field: LOS MEDANOS (WOLFCAMP)

Oil Cum: 24.29 mbbl

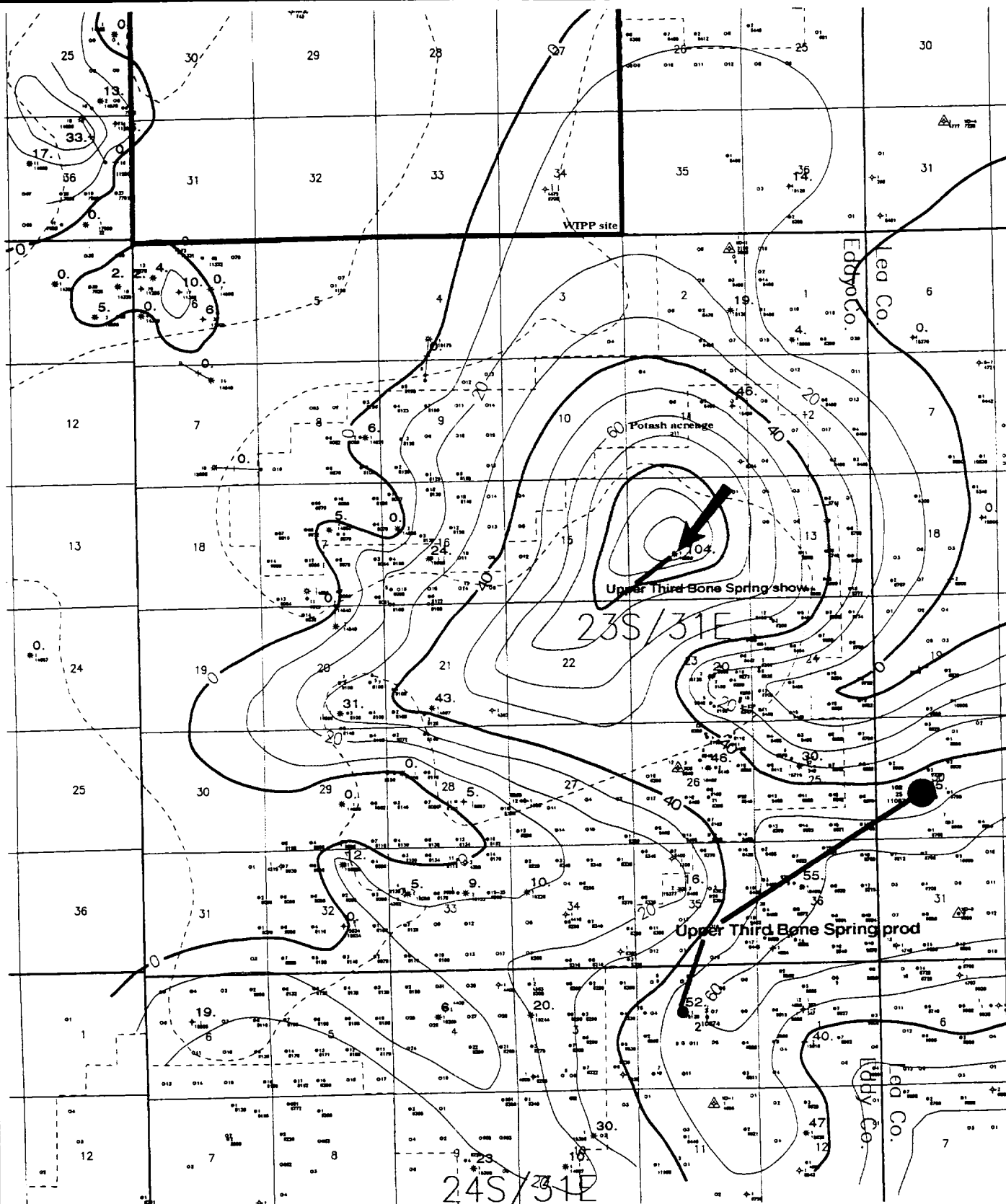
Well Count

Reservoir: WOLFCAMP

Gas Cum: 32.56 mmcf

Operator: BASS ENTERPRISES PROD

Location: 36A 22S 30E



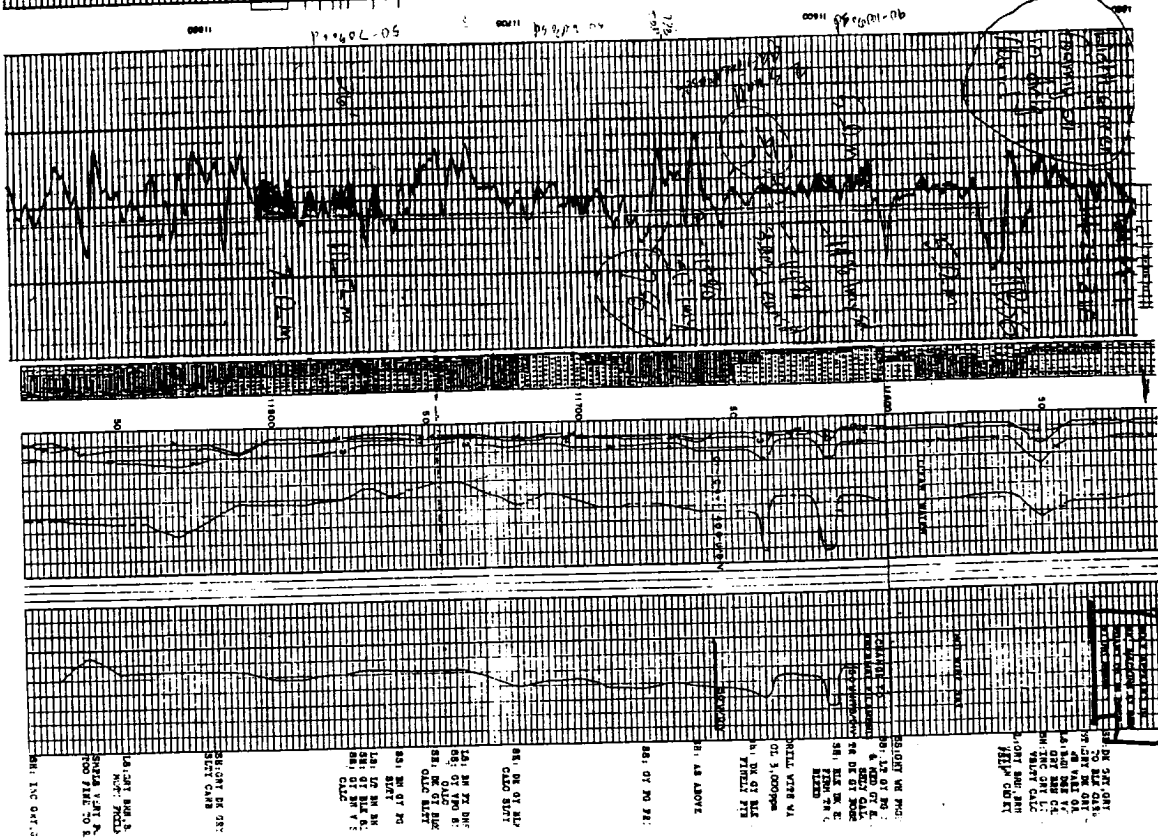
devon ENERGY CORPORATION

INGLE WELLS/SAND DUNES
Eddy & Lea Counties, New Mexico
Third Bone Spring, Upper Net Lime

Jason Hamilton	Scale 1:72000	10/22/98
j'dea/GESpro	Perman/Can/Ch/Ba	14RTBSu.gi

-Third Bone Spring lower + Wolcamp

—



CROSS SECTION : Third Bones Springs lower sand and Wolfcamp upper sand.

JAMES RANCH UNIT #71

36A-22S-30E

IP: 1/95 CUM PROD: 25 MBO

TBSGI & WFCMPU

JAMES RANCH UNIT #7

6G-23S-31E

IP: 10/74 CUM PROD: 101 MBO

TBSGI

DEC TODD FEDERAL 14-1

14K-23S-31E

PROSPECTIVE ZONES

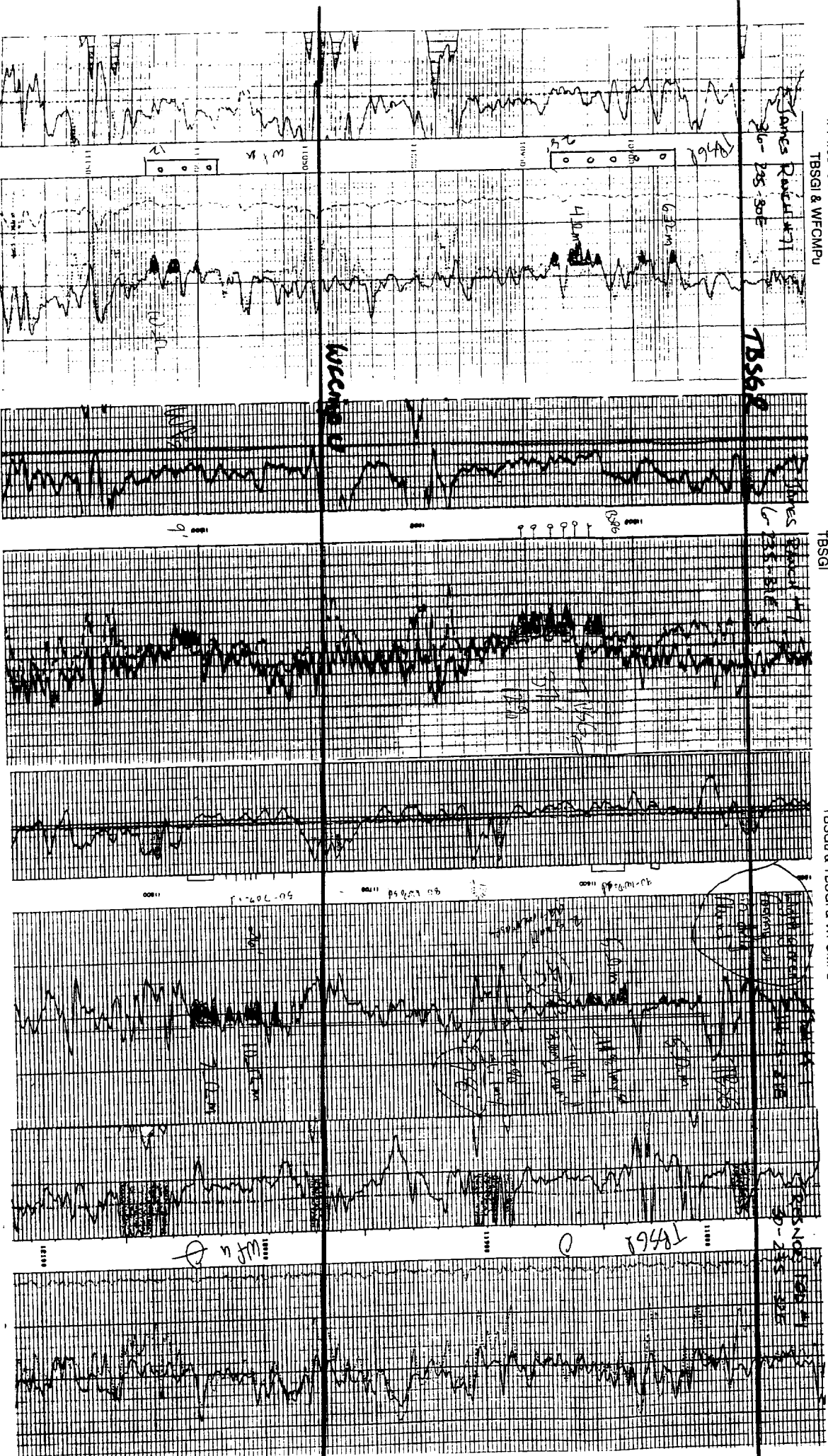
TBSGI & TBSGI & WFCMPU

TRESNOR FEDERAL #1

30K-23S-32E

IP: 9/82 CUM PROD: 105 MBO

TBSGI



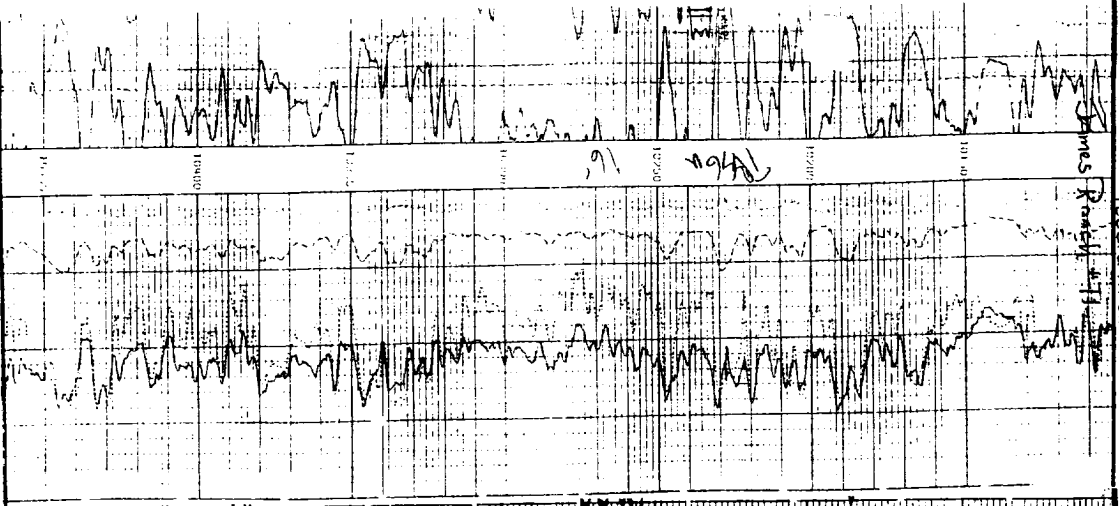
CROSS SECTION : Third Bone Springs upper line.

JAMES RANCH UNIT #71

36A-22S-30E

IP: 1/85 CUM PROD: 25 MBO

TBSGI & WFCMPU

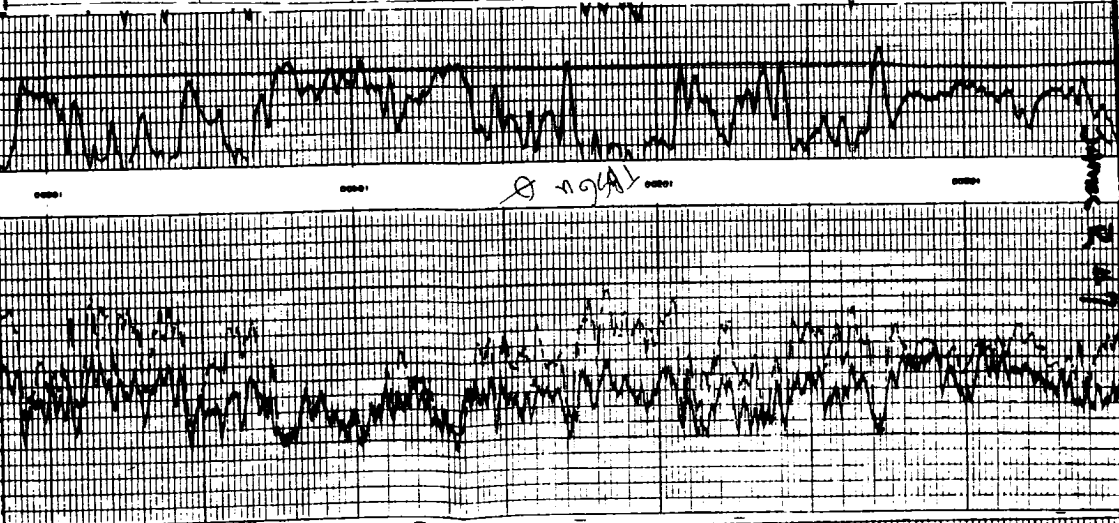


JAMES RANCH UNIT #7

6G-23S-31E

IP: 10/74 CUM PROD: 101 MBO

TBSGI

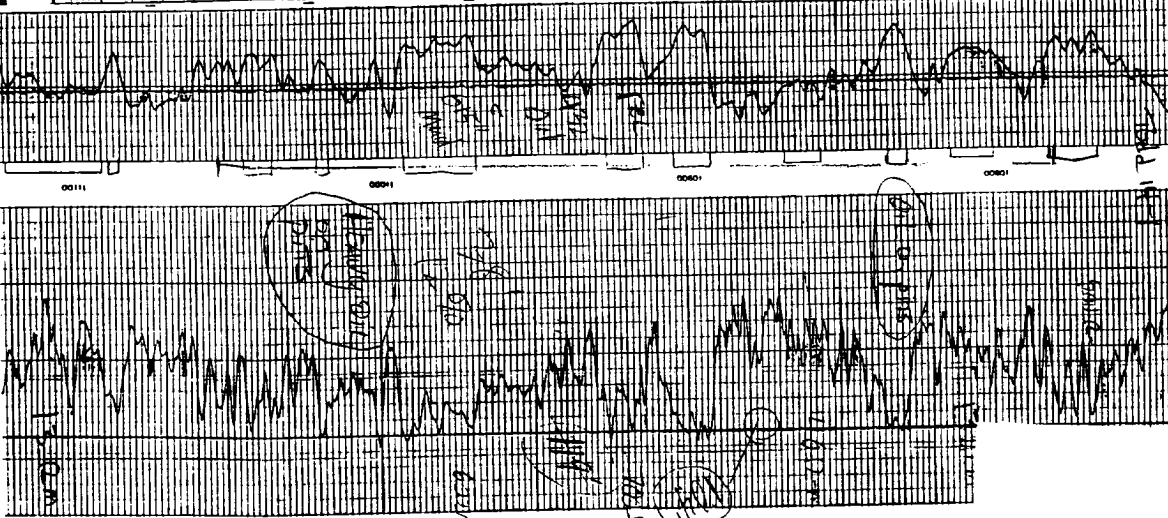


DEC TODD FEDERAL 14-1

14K-23S-31E

PROSPECTIVE ZONES

TBSGI & TBSGI & WFCMPU



TRESNOR FEDERAL #1

30K-23S-32E

IP: 9/82 CUM PROD: 105 MBO

TBSGI

