THE APPLICATION OF TENNECO OIL COMPANY
FOR A DUAL COMPLETION

ORDER NO. MC-2755

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 112-A, Tenneco Oil Company made application to the New Mexico Oil Conservation Division on October 20, 1980, for permission to dually complete its Jicarilla B Well No. 8E located in Unit C of Section 15, Township 26 North, Range 5 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit production of gas from the Blanco-Mesaverde Pool and from the Basin-Dakota Pool.

Now, on this 20th day of November, 1980, the Division Director finds:

1. That application has been filed under the provisions of Rule 112-A of the Division's Rules and Regulations;

2. That satisfactory information has been provided that all operators of offset acreage have been duly notified;

3. That no objections have been received within the waiting period as prescribed by said rule;

4. That the proposed dual completion will not cause waste nor impair correlative rights; and

5. That the mechanics of the proposed dual completion are feasible and consonant with good conservation practices.

IT IS THEREFORE ORDERED:

That the applicant herein, Tenneco Oil Company, be and the same is hereby authorized to dually compoete its Jicarilla B Well No. 8E located in Unit C of Section 15, Township 26 North, Range 5 West, NMPM, Rio Arriba County, New Mexico, in such a manner as to permit production of gas from the Blanco-Mesaverde Pool and from the Basin-Dakota Pool through parallel strings of tubing.

PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A.

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter.

IT IS FURTHER ORDERED: That jurisdiction of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY
Division Director

SEAL

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

December 10, 1980

Mr. Carley Watkins
Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

Re: Application for multiple completion

Dear Carley:

I am in receipt of applications for multiple completion for the Jicarilla C #5E and the Jicarilla B #8E. Before I can make any recommendation to the Director to approve the proposed completions, we will need to have data which shows that the Mesaverde producing interval will not have a water problem. Such data should include expected water volumes, gas production rates, and such other information that would show that annular production of the Mesaverde will not be wasteful.

If you have any questions, please contact this office.

Yours truly,

Frank T. Chavez
District Supervisor

xc: Oil Conservation Division, Carl Ulvog
U.S.G.S., Farmington

FTC;no

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator	County	Date
Tenneco Oil Company	Rio Arriba	9/16/80
Address	**Lease**	**Well No.**
720 S. Colo. Blvd., Denver, CO 80222	Jicarilla "B"	8E

Location of Well	Unit	Section	Township	Range
	C	15	26N	5W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES X NO _____
2. If answer is yes, identify one such instance: Order No. R-5707 ; Operator Lease, and Well No.: Jicarilla C-6

3. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Mesaverde		Dakota
b. Top and Bottom of Pay Section (Perforations)	5345-5441'		7396-7604'
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

4. The following are attached. (Please check YES or NO)

Yes	No	
X		a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
X		b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
X		c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
X		d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Conoco 555 17th Street, Denver, Colorado 80202

Supron (Southern Union), Box 808, Farmington, New Mexico 87401

RECEIVED
NOV 24 1980
OIL CON. COM.
DIST. 3

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES ✓ NO _____. If answer is yes, give date of such notification DATE MAILED September 29, 1980

CERTIFICATE: I, the undersigned, state that I am the Asst. Div. Adm. Mgr. of the Tenneco Oil Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Carley Watkins
Signature

Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of

Form 9-330
(Rev. 5-63)

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.

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: Tenneco Oil Company

3. ADDRESS OF OPERATOR: 720 S. Colo. Blvd., Denver, CO 80222

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1685'FWL; 1020'FNL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: Contracts #109
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Jicarrilla B
9. WELL NO.: 8E
10. FIELD AND POOL, OR WILDCAT: Basin Blanco Mesaverde/Dakota
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 15; T26N; R5W
12. COUNTY OR PARISH: Rio Arriba
13. STATE: New Mexico

14. PERMIT NO.: DATE ISSUED:

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6/21/80	8/5/80	9/4/80	6632'GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7626'		2	→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 5345-5441(Mesaverde)

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: C/FDL; C/NFD; I/GR;CBL/VD; ISFL

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
9 5/8"		314'	13 3/4"	225 sxs CL-B w/2% CACL2	
7"	23#	5808'	8 3/4"	150 sxs Howcow lite; 150 sxs	
4 1/2"	10.5#	7603'	8 3/4"	CL-B w/2% CACL2 895 sxs	
4 1/2	11.6#	7603	8 3/4	Howcolite, 90 sx BJ lite 150 sxs CL-B	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7350'	7350'

31. PERFORATION RECORD (*Interval, size and number*)

5345-5347
5352-5354
5370-5372
5382-5386
5412-5414
5422-5426
5437-5441
4930-4961

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5345-5441	500 gals 7 1/2% HCL 63,000 gals KCL water, 1000 gals 15% HCL 52,500# 20/40 sand, 750 gals. 15% HCL 44,000 gals KCL wtr., 39,900# 20/40 sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
9/4/80	flowing	

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/4/80	3 hrs	3/4			Q=1361		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
90 PSI	510 PSI			AOF=1716		

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): vented

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Electric logs forwarded by Schlumberger

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

SIGNED [signature] TITLE Asst. Div. Admin. Manager DATE 9/10/80

*(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 and 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:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Cliffhouse	4894	4973	gas
Menefee	4973	5486	gas/wtr
Point Lookout	5486	5560	gas/tite

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Cliffhouse		
Menefee	4973	4973
Pt. Lookout	5486	5486
Mancos	5560	5560

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

GPO 680-147

Form 9-330
(Rev. 5-63)

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.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: Contracts 109

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jicarilla B

9. WELL NO.: 8E

10. FIELD AND POOL, OR WILDCAT: Blanco Mesaverde/B. Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 15; T26N; R5W

12. COUNTY OR PARISH: Rio Arriba

13. STATE: N.M.

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: Tenneco Oil Company

3. ADDRESS OF OPERATOR: 720 S. Colo. Blvd., Denver, CO 80222

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: 1685'FWL; 1020'FNL
At top prod. interval reported below
At total depth

14. PERMIT NO. | DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
6/21/80	8/5/80	9/4/80	6632'GR	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7626'		2	→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 7396-7604'Dakota

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: C/FDL; C/NFD; I/GR; CBL/VD; ISFL

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
9 5/8"		314'	13 3/4"	225 sxs CL-B w/2% CACL2	
7"	23#	5808'	8 3/4"	150 sxs Howcowlite; 150 sxs	
4 1/2	10.5#	7603'	8 3/4"	CL-B w/2% CACL2 895 sxs	
4 1/2"	11.6#	7603'	8 3/4"	Howcolite, 90 sx BJ lite,	150 sx CL-B

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	7350'	7350'

31. PERFORATION RECORD (*Interval, size and number*)

7396-7402
7424-7426
7480-7484
7518-7530
7565-7571
7600-7604

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7396-7604	350 gal 15% HCL, 1250 gals 15% HCL-80,000 gals 30# XL gel 80,000# 20/40 sand 25,000# 10/20 sand

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
9/4/80	flowing gas	

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/4/80	3	3/4			Q=1741		

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
120 PSI				AOF=1748		

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): vented

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Electric logs forwarded by Schlumberger

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

SIGNED [signature] TITLE Asst. Div. Admin. Manager DATE 9/10/80

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

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SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Gallup	6558	7090	gas/oil/tite
Dakota A	7396	7478	gas
Dakota B	7478	7516	gas
Dakota D	7516	7610	gas

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Gallup	6558	6558
Greenhorn Lime	7302	7302
Dakota A	7396	7396
Dakota B	7478	7478
Dakota D	7516	7516

U.S. GOVERNMENT PRINTING OFFICE: 1969—O-683636

GPO 680-147

JICARRILLA B8E
NW Section 15, T26N-R5W
San Juan County, New Mexico

Conoco
555 17th Street
Denver, Colorado 80202

Supron (South. Union)
Box 808
Farmington, New Mexico 87401

Schlumberger

INDUCTION-GAMMA RAY LOG

COUNTY RIO ARRIBA
FIELD BLANCO MESA VERDE
LOCATION S-15, T-26N, R-5W
WELL JICARILLA B-8-E
COMPANY TENNECO OIL CO.

COMPANY TENNECO OIL COMPANY

WELL JICARILLA B-8-E

FIELD BLANCO MESA VERDE

COUNTY RIO ARRIBA STATE NEW MEXICO

LOCATION 1020 FNL
1685 FWL

API SERIAL NO	SEC	TWP	RANGE
	15	26N	5W

Other Services:
FDC

Permanent Datum: GD LEVEL ; Elev.: 6632
Log Measured From KB, 14 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 6646
D.F. 6645
G.L. 6632

Date	6-30-80			
Run No.	ONE			
Depth—Driller	5800'			
Depth—Logger (Schl.)	5808'			
Btm. Log Interval	5802			
Top Log Interval	3500			
Casing—Driller	9 5/8 @ 313	@	@	@
Casing—Logger	—			
Bit Size	8 3/4"			
Type Fluid in Hole	GEL			
Dens. / Visc.	9 # / 55			
pH / Fluid Loss	— / 8.4 ml	ml	ml	ml
Source of Sample	MUD PIT			
Rm @ Meas. Temp.	2.10 @ 88 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	1.97 @ 88 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	— @ °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	EMT / —			
Rm @ BHT	1.4 @ 132 °F	@ °F	@ °F	@ °F
TIME Circulation Stopped	08:30			
TIME Logger on Bottom	1300			
Max. Rec. Temp.	132 °F	°F	°F	°F
Equip. / Location	8174 / FARM			
Recorded By	McBRIDE/LEWAND			
Witnessed By Mr.	PEAVEY			

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

Schlumberger

INDUCTION SPHERICALLY FOCUSED LOG

COMPANY TENNECO OIL COMPANY

WELL JICARILLA B-8-E

FIELD

COUNTY RIO ARRIBA STATE NEW MEXICO

LOCATION 1020 FNL
1685 FWL

API SERIAL NO	SEC	TWP	RANGE
	15	26N	5W

Other Services:
FDC
CNL

Permanent Datum: G.L. ; Elev.: 6632
Log Measured From R.K.B. 14 Ft. Above Perm. Datum
Drilling Measured From R.K.B.

Elev.: K.B. 6646
D.F. 6645
G.L. 6632

Date	7-12-80			
Run No.	TWO			
Depth—Driller	7665			
Depth—Logger (Schl.)	7665			
Btm. Log Interval	7661			
Top Log Interval	5750			
Casing—Driller	7" @ 5800	@	@	@
Casing—Logger	5808			
Bit Size	6¼"			
Type Fluid in Hole	FGM			
Dens. / Visc.	8.7 / 60	/	/	/
pH / Fluid Loss	8.5 / 8 ml	/ ml	/ ml	/ ml
Source of Sample	MUD PIT			
Rm @ Meas. Temp.	2.46 @ 78 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	2.80 @ 78 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	— @ — °F	@ °F	@ °F	@ °F
Source: Rmf / Rmc	EMT / —	/	/	/
Rm @ BHT	1.16 @ 166 °F	@ °F	@ °F	@ °F
TIME: Circulation Stopped	0530			
TIME: Logger on Bottom	1130			
Max. Rec. Temp.	166 °F	°F	°F	°F
Equip. / Location	8174 / 3414	/	/	/
Recorded By	M. McBRIDE			
Witnessed By Mr.				

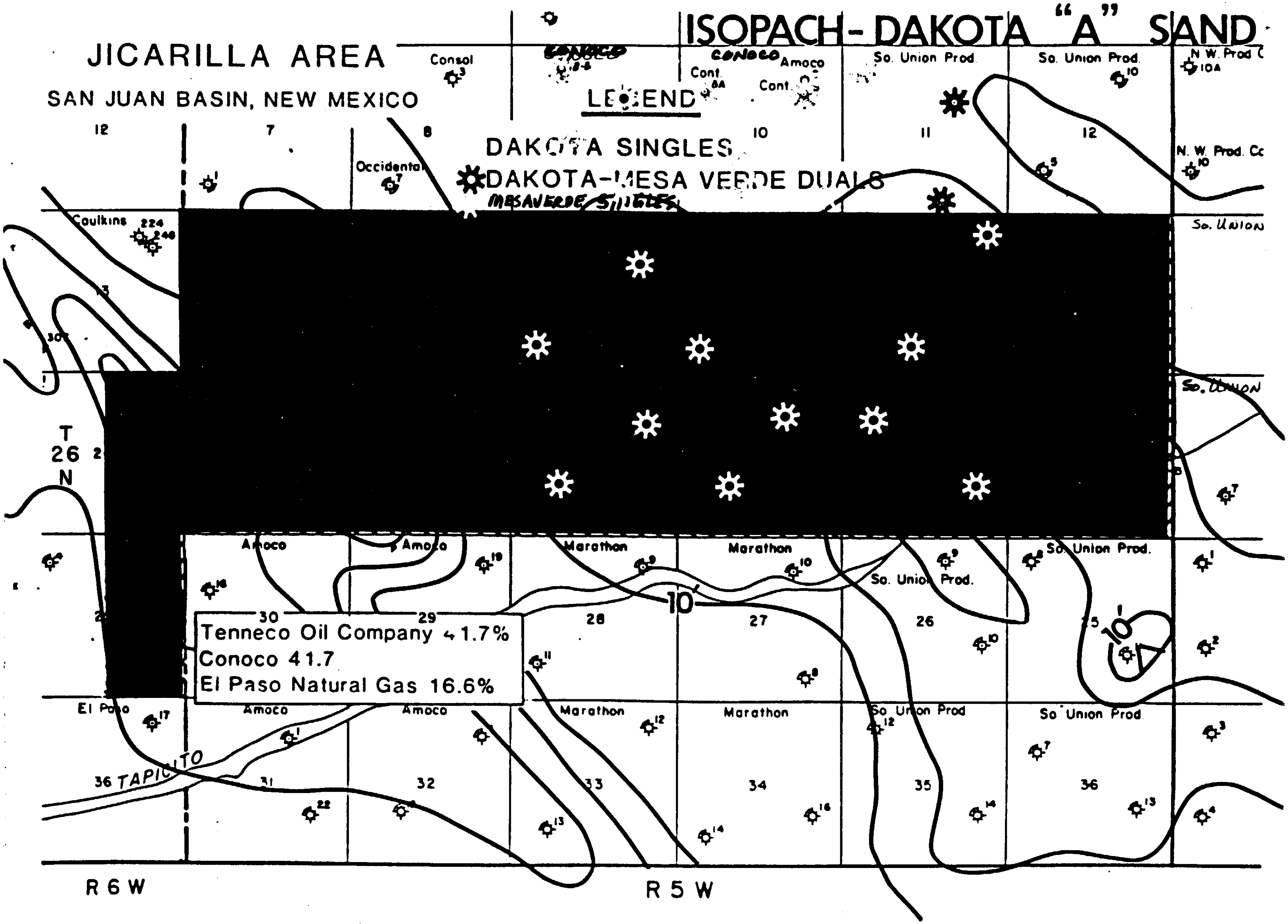
FOLD HERE

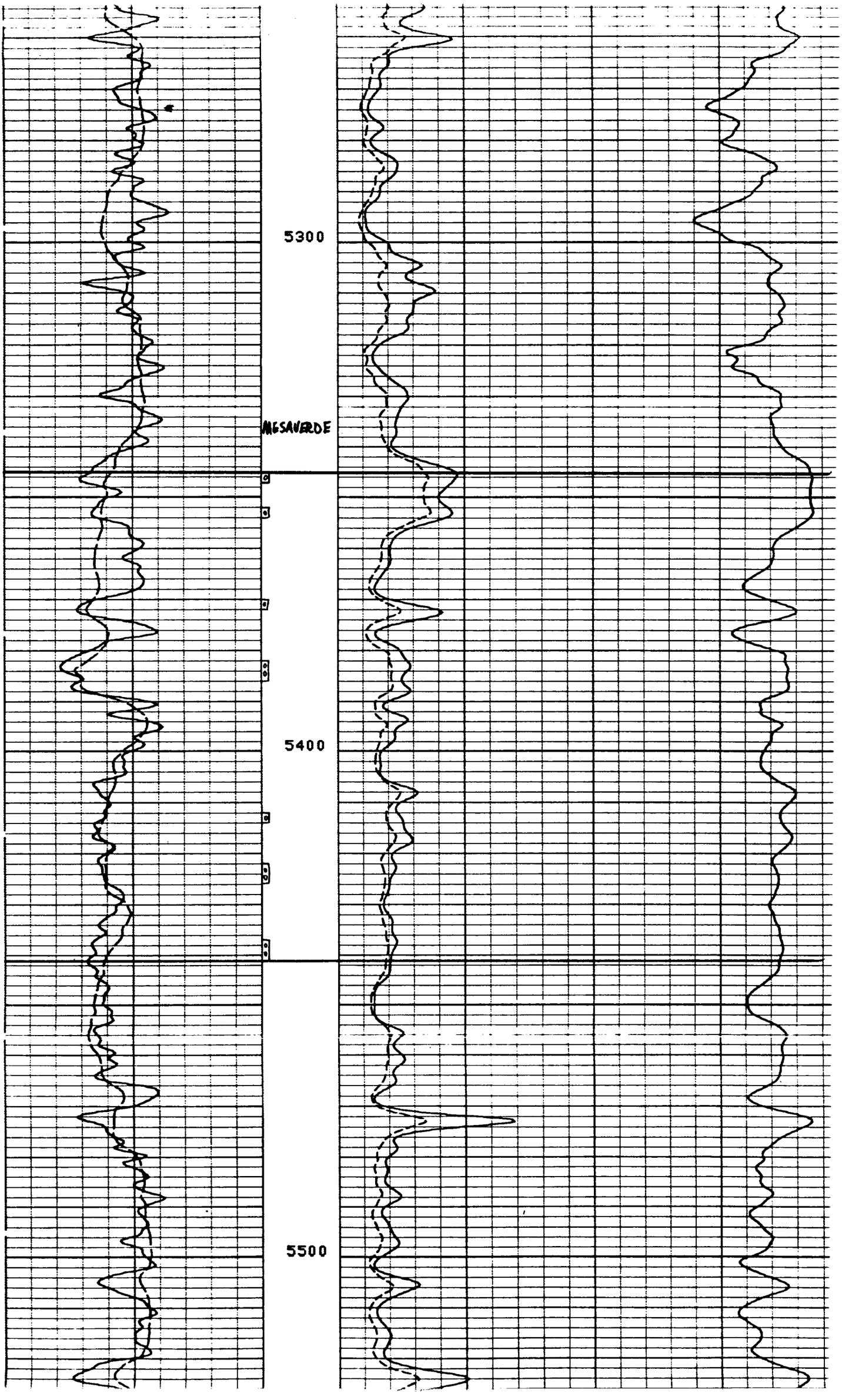
The well name, location and borehole reference data were furnished by the customer

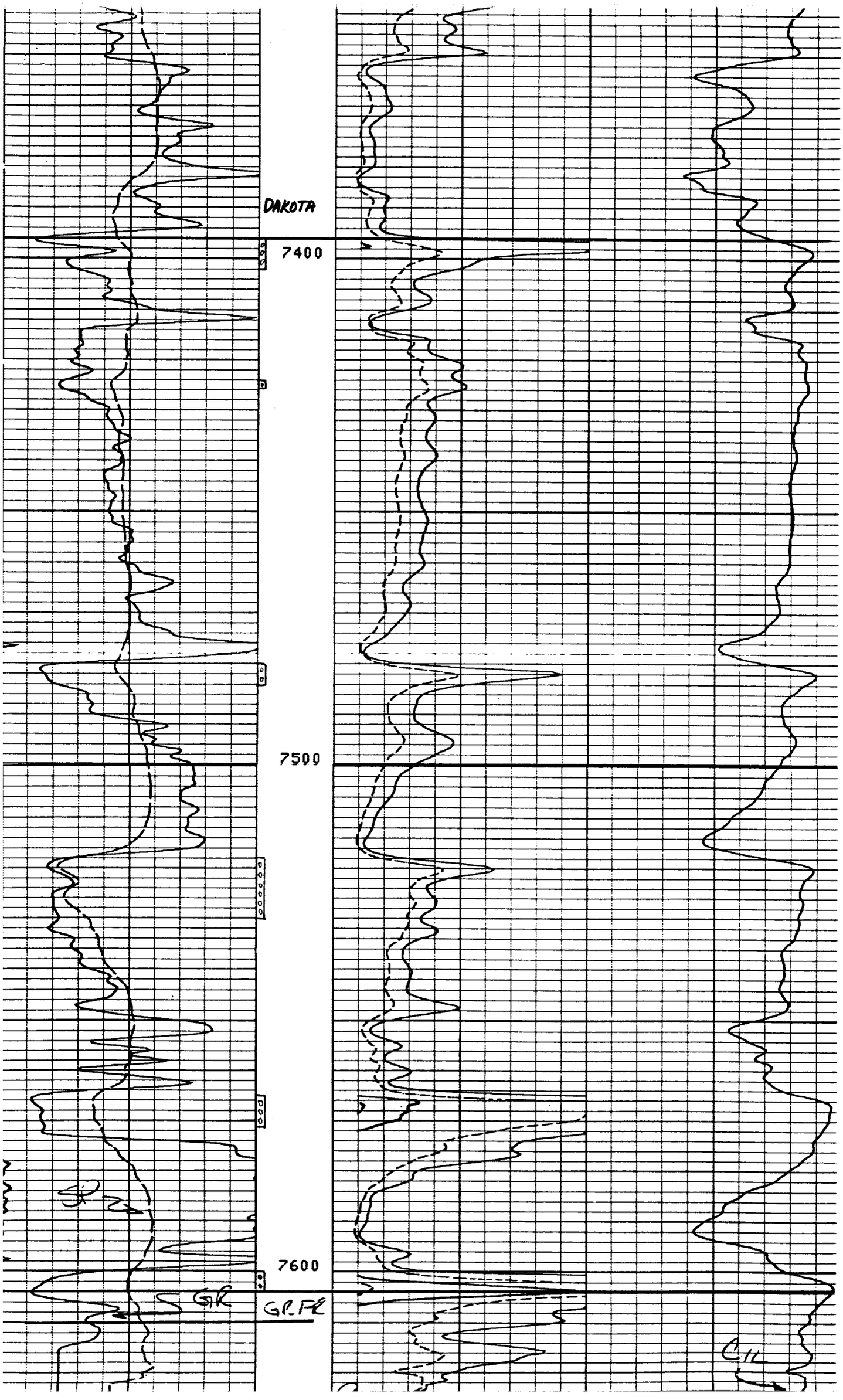
ISOPACH-DAKOTA "A" SAND

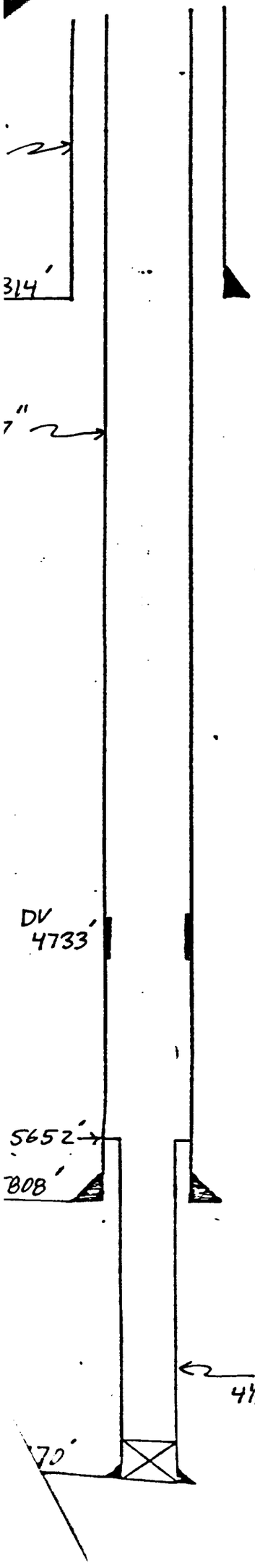
JICARILLA AREA

SAN JUAN BASIN, NEW MEXICO




5300
MESAVERDE
5400
5500


DAKOTA
7400
7500
7600
GR
GR FE
CIL



LEASE JICARILLA

WELL NO. B 8-E

9-5/8 "OD, 36 LB, K-55 CSG.W/ 225 SX

TOC @ SURFACE.

7 "OD, 23 LB, K-55 CSG.W/ 300/895' SX

TOC @ _____.

4-1/2 "OD, 10.5&11.6 LB, K-55 CSG.W/ 240 SX

TOC @ 5652'.

DETAILED PROCEDURE

1. MIRUSU. Install BOP
2. DO to PBTD. DRILL OUT TO LATCH COLLAR @ ± 7626'
3. Test csg to 3500 psi.
4. Circulate hole w/1% KCL water.
5. POOH w/tbg.
6. Run GR/CCL.
7. Perforate Dakota as follows w/3-1/8" premium charge csg gun using 2 JSPF:

DAKOTA	A	7396-7402	6'	
		7424-26'	2'	TOTAL = 34'
DAKOTA	B	7480-84'	4'	68 HOLES
DAKOTA	D	7518-30'	12'	
		7565-71'	6'	
		7600-04'	4'	

8. RIH w/pkr & RBP w/ball catcher.
9. Acidize perfs w/15% HCL as follows:

7396-7426	350 GAL	24 BALLS
7480-7530	750 GAL	48 BALLS
7565-7604	500 GAL	30 BALLS

TOTAL = 1600 GAL, 102 BALLS

10. POOH w/RBP & pkr.
11. Frac w/30# cross-linked gel in 1% KCL water as follows:
    - 10,000 gal pad.
    - 10,000 gal w/1 ppg 20/40 sand.
    - 15,000 gal w/2 ppg 20/40 sand
    - 5,000 gal w/2 ppg 10/20 sand
    - 10,000 gal pad w/ 34 balls.
    - 10,000 gal w/1 ppg 20/40 sand
    - 15,000 gal w/2 ppg 20/40 sand
    - 5,000 gal w/3 ppg 10/20 sand

    Flush to top perf. Desired pressure = 3000psi.

    Total sand: 80,000# 20/40
    25,000# 10/20.

    Total Gel: 80,000 gal.
12. SI overnight.
13. RIH w/tbg, S/N, & pump-out plug.
14. CO to PBTD w/foam.
15. Land tbg w/bottom of tbg in top set of perfs.
16. Kick well around w/N_2.
17. Flow until clean-up.
18. SI pending AOF.