DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY WELL COMPLETION OR RECOMPLETION REPORT AND LOG* 11. PPF OF WELL 12. WALL 13. TOPE OF COMPLETION. ARCO DEL WALL 14. WALL 15. WALL 15. TOPE OF COMPLETION. ARCO DEL WALL 16. WALL 16. WALL 17. TOPE OF CAMPLETION ARCO DEL WALL 18.	(rev00)	1 11	VITED	STA	ΓES	SUBMI	T IN DUPLI		į B	udget B	proved. ureau No. 42-R355.5.
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AND STATE AND COST SERVICE SERVICE SERVICE STATE OF STATE	1a. TYPE OF WEL	L: OIL WELL	GAS WELL 1	10	RY .	Other			7. UNIT AGRE	EMENT	NAME
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HOW MANY 1											
24. PRODUCTION INTERVAL(S). OF THIS CONTURTION—TOP, BOTTOM, NAME (MD AND TVD)* Dakota A, B, &C - 7121'-7287' Shut in by Cast Iron Bridge Plug @ 6620' Dakota D - 7354'-7394' pending approval to comingle w/Gallup prod. NO 26. THE ELECTRIC AND OTHER LOSS REN CNL DIL/SFL 28. CASING RECORD (Report all strings set in well) CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT, LB/FT. DEFTH SET (MD) HOLE SIZE CAMENTING RECORD AMOUNT PULLED 10-3/4" 40.5\$ 705' 14-3/4" SEE ATTACHED NONE 10-3/4" 11.6\$ 7461' 7-7/8" SEE ATTACHED NONE 29. LINER RECORD SIZE TOP (MD) SOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEFTH SET (MD) PACKER SET (MD) NONE 31. PERFORATION RECORD (Interval, size and number) SI, PERFORATION RECORD (Interval, size and number) SEE ATTACHED SEE A		1 TVD 21. PLUG, BAC		TVD 22.	IF MUL HOW M	ANY			t .	. 1	CABLE TOOLS
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28. LINER RECORD 30. TUBING RECORD 812E TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD) NONE 31. PERFORATION RECORD (Interval, size and number) SEE ATTACHED 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED SEE ATTACHED SEE ATTACHED 33.* PRODUCTION SEE ATTACHED SEE ATTACHED SEE ATTACHED SEE ATTACHED SEE ATTACHED SEE ATTACHED TO COMINGIE PRODUCTION AFTEN FINISHING OIL—BML. GAS—NOF. WATER—BML. SASOIL BATTO TEST TO BE CONDUCTED AFTER FINISHING OFFEN. FOR OIL—BML. GAS—NOF. WATER—BML. SASOIL BATTO TION. TURNOR PRESS. CASING PRESSURE GALCULATED OIL—BML. GAS—NOF. WATER—BML. GIGNIVITIAFI (CORE.) TO COMINGIE PRODUCTION IS GALCULATED OIL—BML. GAS—NOF. WATER—BML. OIL GRAVITIAFI (CORE.) 34. DISFOSITION OF GAS (Sold, used for fuel, vented, etc.) Gas vented on cleanup 35. LIST OF ATTACHMENTS 20 f #26 above 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all avalage parts. NEW 8 1982	CASING SIZE	WEIGHT, LB./FT.				·					
29. LINER RECORD SIZE TOP (MD) SOTION (MD) SACKS CEMENT* SCREEN (MD) NONE NONE 31. PERFORATION RECORD (Interval, size and number) SEE ATTACHED SOUBLE SALVER SEE ATTACHED SOUBLE SALVER SEE A											
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NONE Signed None 2-3/8" 6267' None	29.	LINE	R RECORD				30.		TUBING RECO	RD	
33.* PRODUCTION SEE ATTACHED PRODUCTION PRODUCTION PRODUCTION DATE REST RECORD (Interval, size and number) PRODUCTION PROPERTIES PROD'N. FOR OIL—BBL. GAS—NICF. WATER—BBL. GAS—NICF. WATER—BBL. GAS—OIL RATIO TEST TO BE CONDUCTED AFTER FINISHING CHEAN—UP OPERATIONS WHEN (IF) PERMISSION TO COMINGLE PRODUCTION IS GIVEN A DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) GAS—NICF. WATER—BBL. OIL GRAVITY-API (CORR.) TEST WITNESSED BY GAS Vented on cleanup 35. LIST OF ATTACHMENTS 2 of #26 above 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available properties OF HECORD NEW YORK OF ACTION AND THE CORR.) TITLE Acting District Manager DATE 11-1-82 NEW YORK OF MATERIAL USED ACID MATERIAL USED ACID MATERIAL USED SEE ATTACHED AMOUNT AND KIND OF MATERIAL USED SEE ATTACHED AND MATERIAL USED PROPUCTION AND MATERIAL USED PROPUCTION PRODUCTION PROPUGATION PRODUCTION PROPUGATION PROPUGATION AND MATERIAL USED PROPUGATION AND MALE AND THE CORRETAL USED AND METER ACTION AND MATERIAL USED PROPUGATION AND MATERIAL USED PROPUGATION PROPUGATION PRODUCTION PRODUCTION PRODUCTION PRODUCTION PROPUGATION PROP	SIZE	TOP (MD) BOTT	ом (мр)	SACKS CE	MENT*	SCREEN (MI			<u> </u>)	
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SEE ATTACHED SEE ATTACHED PRODUCTION CHOKE SIZE PRODIN, FOR CHOKE SIZE CASCULTATED CASCULTATED 24-HOUR RATE CASCULTATED CASCUL	DI. PERFORMITON ME	(1,50,000, 0,50 C)									
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NSTRUCTIONS

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

or Federal office for specific instructions. 14cm 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 should be listed on this form, see item 35.

Hem 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. Hems 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.

[Hem 29: "Nacks ('concut'): Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

37

Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

17. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENT DEFTH INTERVAL TESTED, CUSHION USED, TIME TOOL OF	THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING	38. GEOLOG	IC MARKERS	
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		Greenhorn		
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		Dakota	7117'	
		Morrison	7396'	
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ATLANTIC "C" 101 NENE Section 6-30N-10W San Juan County, New Mexico

DAKOTA

18. Elevations (DF, RKB, GR, ETC)

DF 14'; RKB 6135'; RT 6134'; GR 6121'

19. Elev. Casinghead

Braiden Head Flange 6119½'; Inter Casing Spool Flange 6121½'

28. Casing Record (Cementing Record)

10-3/4" surface casing: cemented with 700 sacks Class "H" cement containing 2% CaCl₂. Total volume=798 cu.ft. Circulated 70 sacks (79.8 cu.ft.) to surface.

4-1/2" production casing: set stage cementing tools at 3016' RKB and 1707' RKB. Cemented with: First stage: lead slurry 1074 cu.ft., 600 sacks 50/50 Class "H" cement/pozzalan containing 6% gel + 6#/sx salt + $12\frac{1}{2}\#/\text{sx}$ gilsonite + 2% CaCl₂. Tail slurry 181.5 cu.ft., 150 sacks Class "H" + 6#/sx salt + 2% CaCl₂. Top cement by Cement Bond Log = 4472'.

Second stage: 841.3 cu.ft., 470 sacks 50/50 Class "H" cement/pozzalan containing 6% gel + 6#/sx salt + $\frac{1}{2}$ cu.ft./sx perlite + 2% CaCl $_2$. Top of cement at 3rd stage collar - circulated approx 70 sx (125.3 cu.ft.) to surface after opened stage collar @ 1707'.

Third stage: 1109.8 cu.ft., 620 sx 50/50 Class "H" cement/pozzalan containing 6% gel + 6#/sx salt + ½ cu.ft./sx perlite + 2% CaCl₂. Circulated approx 130 sx (232.7 cu.ft.) to surface.

31. Perforation Record (Interval, size and number)

Dakota "D" Sand Shot 35 0.34" diameter perfs at 1 JSPF at (RKB) depths:

7354-7379 7384-7394

Dakota A, B, & C Sand Shot 17 0.38" diameter perfs at (RKB) depths:

7121,7123 7213,16,19,21,23,26,29,68,70,72,74,78,81,84,7287

32. Acid, shot, fracture, cement squeeze, etc.

7354' - 7394' (RKB) Dakota "D" Sand acid: 1200 gals 15% HCL + additives

frac: 75,936 gals + additives + 6,048# 100 mesh

sand and 162,372# 20/40 mesh sand

7121' - 7287' (RKB) acid: 1200 gals 15% HCL + additives

Dakota A, B, & C Sands frac: 62,395 gals + additives + 7,500# 100 mesh

sand and 63,008# 20/40 mesh sand