Form 3160-4
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: November 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. CONT 145

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name JICARILLA

7. Unit or CA Agreement Name and No.

2. Name of Operator CONOCO INC.
Contact: DEBORAH MARBERRY
E-Mail: deborah.moore@usa.conoco.com

8. Lease Name and Well No. JICARILLA K 17M

3. Address P.O. BOX 2197 DU 3066 HOUSTON, TX 77252
3a. Phone No. (include area code) Ph: 281.293.1005

9. API Well No. 30-039-25842

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface SWSE 790FSL 1850FEL
At top prod interval reported below
At total depth

DEC 2001 RECEIVED OIL CON. DIV DIST. 3

10. Field and Pool, or Exploratory BASIN DAKOTA

11. Sec., T., R., M., or Block and Survey or Area Sec 12 T25N R5W Mer NMP

12. County or Parish RIO ARRIBA
13. State NM

14. Date Spudded 12/12/2000
15. Date T.D. Reached 01/29/2001
16. Date Completed ☐ D & A ☒ Ready to Prod. 09/24/2001
17. Elevations (DF, KB, RT, GL)* 7379 GL

18. Total Depth: MD 8156 TVD
19. Plug Back T.D.: MD 8065 TVD
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
TDT/GR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 J-55	36.0		504		300		0	
8.750	4.500 J-55	11.0		8153	5392	595 1695		0	
"	"	"		"	6547	400		5392	
"	"	"		"		385		6547	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7820							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	BASIN DAKOTA	7900	8112	7900 TO 8112		40	
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7900 TO 8112	FRAC W/46,339 GALS 2% KCL & 106,000 20/40 SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/02/2001	09/24/2001	24	→	3.0	375.0	20.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
.5	60	600.0	→					GSI

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

ACCEPTED FOR RECORD
NOV 28 2001
FARMINGTON FIELD OFFICE
BY

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #7891 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL**

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
OJO ALAMO	2996	3266		OJO ALAMO	2996
				FRUITLAND FMA	3267
				PICTURED CLIFFS	3690
				LEWIS	3805
				CHACRA	4584
				CLIFFHOUSE	5390
				MENEFEE	5405
				POINT LOOKOUT	5897
				MANCOS	6262
				U. GALLUP	6910
				M. GALLUP	7210
				SANOSTEE	7520
				GREENHORN	7817
				GRANEROS	7876
				DAKOTA	7896

32. Additional remarks (include plugging procedure):
Daily's are attached. This well was completed as a single Dakota only due to problems encountered in the Mesaverde.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #7891 Verified by the BLM Well Information System.
For CONOCO INC., sent to the Rio Puerco
Committed to AFMSS for processing by Angie Medina-Jones on 10/12/2001 ()

Name *(please print)* DEBORAH MARBERRY Title SUBMITTING CONTACT

Signature (Electronic Submission) Date 10/12/2001

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

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JICARILLA K 17M (RCL7/31/2000)

Clean-out

Daily Summary

API	County	State/Province	Surface Legal Location	NS Dist. (ft)	NS Flag	EW Dist. (ft)	EW Flag
300392584200	RIO ARRIBA	NEW MEXICO	NMPM-25N-5W-12-O	790.0	S	1850.0	E

KB Elev (ft)	Ground Elev (ft)	Plug Back Total Depth (ftKB)	Spud Date	Rig Release Date	Latitude (DMS)	Longitude (DMS)
7392.00	7379.00		12/12/2000	1/29/2001		

Start	Ops This Rpt
4/16/2001	Road rig to location, Spot in rig an equipment, NDWH, NUBOP. Spot in trailer with tbg. RU safety chains. Secure well SDFN
4/16/2001	RU BOP testers, test BOP. RU floor, RIH with drill bit an tbg. Tag top of cement at 5234'. RU power swivel, drill out cement to DV tool at 5300'. Drill out DV tool, circalate clean. RD power swivel. RIH with tbg to top of cement at 6745'. RU power swivel, Drill out 105' of cement , tag up on DV tool at 6843'. Circalate clean . SEcure well SDFN
4/17/2001	Csg. press. 0#, RU power swivel, drill out DV tool circalate clean. RD power swivel. RIH with tbg. Tag cement at 8037'. RU power swivel. Drill out 38' of cement, tag up on float collar, drill out. 8070'. Drill out cement to 8148'. circalate clean. Displace csg with 140bbls of KCL. Test csg to 1000# held okay. RD power swivel. POOH with 62 joints of tbg. Lay down on trailer. Secure well SDFN
4/18/2001	POOH with 198 joints of tbg, lay down on trailer. NDBOP, NUWH. Got equipment ready to move. Rig down pulling unit. MOve pulling unit off.
4/19/2001	Rig up wireline unit, Ran TDT/GR log on well. TDT log from 8144' to surface, GR log from 8144' to 3006'. RD wireline. Secure well Shut in till frac job.
4/30/2001	RD master valve, rig up scafolding an frac valves. RU pump truck. Load csg with 14 bbls of KCL. Press. test csg to 4300#. Held press for 15 mins. , held okay. Blow down press. RD pump truck. RU wireline unit, RIH with 3 1/8" select fire perf gun. Made two gun runs , all shots fired. Perf as followed: 8072'-8112', 1/2 shot per foot, 21 holes. 8042'-8055' 1/2 shot per foot, 14 holes. 7998'-8006', 1/2 shot per foot, 5 holes. 7932'-7936', 1/2 shot per foot, 3 holes, 7900'-7910', 1/2 shot per foot, 6 holes. total holes, 49. RD wireline. SHUT WELL IN. wAIT ON FRAC .
5/5/2001	Held safety mtg. RU Halliburton frac unit. Pressure test lines to 5300#. Set pop-off @ 3860#. Start B/D. Formation broke @2573 #. and 4.8 bpm. Start 1000gal 15 % HCL w/ 5 gal HAI- 25 , 1 gal surfactant. and 59 7/8" 1.3 sg bio sealers. @ 5.0 bpm and 1290#. Flushed @ 19.6 bpm & 2360#. Showed good ball action but did not ball off. Wait for biosealers for 1 hr. Start step test @ 33 bpm & 3650# , step to 20 bpm & 2300 #, step to 10 bpm & 1760 #. S/D. ISDP=1320 , FG= .61 psi/ft. Leak off is as follows: 5 min=1136 #, 10 min= 1028 #, 15 min= 963 #. Start 25# Delta frac @ 50 bpm & 3250 #, Start .5# sand @ 48 bpm & 3298 #, Start 1# sand @ 47 bpm & 3310 #, Start 2# sand @ 47 bpm & 3282 #, St. 3# sand @ 47 bpm & 3175 #, St. 4# sand @ 47 bpm & 3155 #, St 5# sand @ 47 bpm & 3152 #, St. flush @ 46 bpm & 2606 #, (called when well head density was @ 4#). Pumped 123 bbl flush. S/D. ISDP= 1977# AV rate= 47 bpm , AV psi= 3180 #, Fluid to recover= 1842 bbl, Sand laden fluid= 858 bbl, TOT sand= 106,760# 20/40 TLC. RU Blue Jet wireline. PU 4.5" Halliburton composite plug. RIH and set @ 6200' . POOH , PU 3 1/8" guns w/ 90^ PP, 12g 306T charges @ .34 holes. RIH and perforate PLO sands as follows : 5786'-5792' w/4 holes, 5870'-5880' w/6 holes, 5900'-5910' w/6 holes, 5928'-5938' w/6 holes, 5963'-5965'w/2 holes, 5970'-5974' w/3 holes, 5986'-5998' w/7 holes, 6028'-6038' w/6 holes. All shots are .5spf for a tot of 40 holes. POOH w/ wireline. RU HES frac unit and test lines to 5300#, Start B/D Formation broke @ 3950# , pumped 23.3 bpm @ 2780#, Dropped 48 7/8" 1.3 sg ball sealers.Showed afew small breaks and did not ball off.RU Blue Jet gunk basket. RIH to retrive balls and stack out @ 6028' work for 15 min but could not get through bridge . POOH and inspect gauge ring. Ring shows evidence of casing damage. Bottom 10' of perfs could still have balls stuck. Casing damage is in perforated zone. I suggest MI rig and dress csg. up and doing acid j
5/9/2001	Road rig to location, Spot equiment an rig. Rig up. Check well, well on vacum. ND frac Y an frac valves, NUBOP. Test BOP , tested okay. RU impression block full ID. (3.927). RIH with block, tag up at 5300'. POOH with block. Tag up on DV tool area. Secure well SDFN
5/9/2001	Csg. press. Vac., RU an RIH with 3.750 impression block. Tag up at 6027'. POOH with block. Block shows csg colasped in about 1/4", about 3" on one side. RIH with mill, bumper sub, jars, an drill collars. an tbg. tag up at 5300'. Dress up DV tool. Secure well SDFN.
5/10/2001	Csg press. vac. RIH with tbg. tag up at 6027 '. Did not fell much, with all this wieght. Dress up csg, rih to 6157'. POOH with tbg. an equiment. lay down tbg. ND BOP , NU frac valves. Secure well. Rig down equipment an rig. Move off. Well shut in, waiting on MV. frac.
5/18/2001	Move in frac unit. Rig up unit. Press. test lines to 4800#. Tested okay. Set pop off valve @ 3800#. Start lead an breakdown, break point 950# at 4.9BPM. Rate up to 45BPM/2300#. Shut down , ISIP 693#. Bullhead 1500 gals. 15% HCl. at 6BPM/760#. Start pad, rate 18BPm/2606#, pump 3000 gals of fluid. Start .5# sand, 18.9BPM/2713#, 1# sand 19.8BPM/2672#, 2# sand 21.8BPM/2675#, 3# sand 23.2BPM/2608#, Flush 23.3BPM/2523#. ISIP 1945# in fifteen 1722#. Shut well in. Avg. rate 20.1BPM,-press. 2625#,- Fluids 27729 gals., Sand 61841# RD frac unit wait on rig to clean out.
5/24/2001	Csg. press. 1000#, Start flowing well to pit on 1/2" choke nipple. Well still making lots of foam. Flow well down to 650# Still waiting on drill gas. Shut well in, SDFN
5/24/2001	Road rig to location, Spot in rig an equipment an rig up. CSG press. 1600#, start flow back on 1/2" choke. Well flow down to 900#, lots of water an foam. Shut well in, SDFN
5/25/2001	Day off
5/26/2001	Day off
5/27/2001	Holiday off
5/28/2001	Csg press. 680#, Open well up on 2' line , well blew down. ND frac valves, NU BOP, RU BOP tester, testy BOP. RD BOP testers. Still waiting on drill gas. Secure well SDFN
5/29/2001	Csg. press. 85#, Blow well down, NU stack, NU blewy lines, RU comp package. Still waiting on drill gas. Secure well SDFN