

Submit to Appropriate  
District Office  
State Lease - 6 copies  
Fee Lease - 5 copies  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Box DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

Form C-105  
Revised 1-1-89

WELL API NO.  
30-045-29781

5. INDICATE TYPE OF LEASE

STATE ☒ FEE ☐

6. STATE OIL & GAS LEASE NO.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER		LEASE NAME OR UNIT AGREEMENT NAME State	
b. TYPE OF COMPLETION: NEW WORK WELL <input checked="" type="checkbox"/> OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> BACK <input type="checkbox"/> RESVR <input type="checkbox"/> OTHER			
2. NAME OF OPERATOR CONOCO, INC.		8. WELL NO. #4E	
3. ADDRESS OF OPERATOR P.O. Box 2197, DU 3066, Houston, TX 77252-2197 (281) 293-1613		9. POOL NAME OR WILDCAT Blanco Mesa Verde	
4. WELL LOCATION Unit Letter <u>D</u> :790' Feet From The <u>NORTH</u> Line and 890' Feet From The <u>WEST</u> Line Section <u>32</u> Township <u>29N</u> Range <u>8W</u> NMPM San Juan County			
10. DATE SPUDDED 2-16-00	11. DATE T.D. REACHED 2-29-00	12. DATE COMPL. (Ready to prod.) 4-5-00	13. ELEV. (FE, RKB, RT, GE, etc.) 5924' GL
15. TOTAL DEPTH 7131'		16. PLUG, BACK T.D. 7038'	17. IF MULTIPLE COMPL. HOW MANY ZONES?
19. PRODUCING INTERVAL(S) OF THIS COMPLETION - TCP, BOTTOM, NAME Blanco Mesa Verde 4046' - 4706'			18. INTERVALS DRILLED BY ROTARY <input type="checkbox"/> CABLE <input type="checkbox"/> TOOLS <input type="checkbox"/> TOOLS <input type="checkbox"/>
21. TYPE ELECTRIC AND OTHER LOGS RUN 2 Cement Bond Logs			20. WAS DIRECTIONAL SURVEY MADE
22. WAS WELL CORED			

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB/FT	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	375'	12 1/2"	275 SXS	
4 1/2"	10.5#	7131'	8 3/4"	2150 SXS	

  

LINER RECORD				TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2 3/8"	6751'

  

PERFORATION RECORD (Interval, size and number)	ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED
SEE ATTACHED SUMMARY.		

PRODUCTION

28. DATE FIRST PRODUCTION 4-5-00		PRODUCTION METHOD Flowing, gas lift, pumping - size, and type of pump FLOWING			WELL STATUS (Producing or shut-in) Producing DHC #2559		
DATE OF TEST 3-25-00	HOURS TESTED 24 Hrs.	CHOKE SIZE 1/2"	PROD'N FOR TEST PERIOD	OIL - BBL 0	GAS - MCF 660 MCFPD	WATER - BBL 10	
FLOW TUBING PRESS NO TBG	CASING PRESSURE 100#	CALCULATED 24 - HR RATE	OIL - BBL 0	GAS - MCF 660 MCFPD	WATER - BBL 10	OIL GRAVITY - API (Corr)	
29. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) V					TEST WITNESSED BY Wes Herrera w/Key Energy		
30. LIST ATTACHMENTS Summary							
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief							
SIGNATURE: <u>VERLA JOHNSON</u>			TITLE: <u>As Agent for Conoco Inc.</u> DATE <u>4-26-00</u>				
TYPE OR PRINT NAME: <u>VERLA JOHNSON</u>			TELEPHONE NO.: <u>(970) 385-9100 ext. 20</u>				

**CONOCO**  
**State #4E Formation Tops**  
**Unit Ltr. D – Sec. 32-T29N-R8W, Rio Arriba Co., NM.**

Ojo Alamo	1400	4539
Kirtland	1532	4407
Fruitland Fm.	2110	3829
Pictured Cliffs	2418	3521
Lewis	2835	3104
Chacra	3028	2911
Cliffhouse	4043	1896
Menefee	4162	1777
Point Lookout	4607	1332
Mancos	5100	839
Gallup	5870	69
Greenhorn	6616	-677
Graneros	6680	-741
Two Wells	6732	-793
Paguate	6825	-886
Cubero	6860	-921
Oak Canyon	7053	-1114
TD	7131	

CONOCO INC.  
State #4E  
API #30-045-29781  
790' FNL & 890' FWL, UNIT LETTER "D"  
Sec. 32, T29N-R8W

3/3/00 MIRU ND wellhead NU BOP start in hole w/ 3 7/8" bit on new 2 3/8" tbg. Run 120 joints.

3/6/00 Continue in hole and tag cement at 3900' drill cement and DV tool at 3922' continue in hole and tag at 6290', drill cement and DV tool at 6294'. RIH, tag cement at 6800' and drill to 6908' circ. Hole clean.

3/7/00 Continue drilling cement to DV tool at 7043' (tubing measurement). Circulate hole w/ clean 2% KCL water test casing to 1000 psi (ok). POOH w/ tubing and bit. Rig up blue jet and run CBL from PBDT at 7038' up to 3500' good bond from 7038 up to 6000' cement is between 10% and 50% bond from 6000' up to 5572' then 5572' up to 4959' is good bond, from 4959 up to 3500' poor cement.

3/8/00 NU 5000 psi frac valve and frac y test casing to 3200 psi (ok). Rig up blue jet and perforate the following at two shots per foot 6735, 37, 39, 41, 43, 45, 47, 49, 51, 6827, 29, 31, 33, 86, 88, 90, 99, 6901, 03, 47, 49, 51, rig down blue jet prep to frac Dakota in the am.

3/9/00 Rig up BJ and test lines to 4800 psi, break down Dakota on water at 1800 psi acidize w/ 1500 gallons HCL blocked w/ 88 1.3 ball sealers avg rate 22 bpm at 2200 psi balled out at 3800 psi. Surged balls off and finished flushed ISIP after flush 1000 psi. RIH w/ junk basket and retrieve 18 ball sealers and recorded 18 hits. Test lines to 4800 psi, pop off leaked, changed out pop-off, test lines to 4800 psi, leaked, shut down and sent pump trucks to shop for repairs.

3/10/00 Rig up BJ and test lines to 6500 psi (ok). Set pop off at 3844 psi. Perform step down test ISIP 850 psi. Frac Dakota w/ 5660 bbl slick water carrying 60,850# 20/40 brady sand ISIP 2200 psi, 5 min. 1350 psi, 10 min 1274 psi, 15 min. 1202 psi start flow back on 1/2" choke at 5pm. Well died at 7:30pm. Shut well in for two hours, (still dead)

3/13/00 Casing pressure 880 psi, flow well back on 1/2" choke at 350 psi. Rig up compressors and blowie line.

3/14/00 Casing pressure 1300 psi blow well down and kill w/ 30 bbl 2% KCL water. RIH w/ tbg and tag fill at 6896'. Blow around w/ gas compressors, clean out to 7043', pull up hole to 6854' and test well up tbg 650 psi casing 270 psi, tubing on 1/2" choke. 1782 MCFPD, 1 bbl oil, 10 bbl water. 2 3/8" tbg set at 6854'.

3/15/00 1280 psi casing, 1280 psi tbg. Blow down and kill well w/ 30 bbl 2% KCL. POOH w, tbg. RU blue jet, set 4 1/2" composite plug at 4850' and dump 12 feet sand on top of plug, test plug to 3300 psi (ok). Perforate the point lookout the following shots at 2 spf 4648, 50, 52, 54, 56, 61, 63, 65, 67, 69, 71, 73, 89, 91, 93, 95, 97, 99, 4702, 04, 06 RU 5000 psi frac valve and 5000 psi frac y.

3/16/00 Rig up BJ, test lines to 4800 psi and set pop off at 3810 psi. Break down w/ water at 1560 psi. Break down and block w/ 84 1.3 ball sealers. Ball off at 3800 psi, avg rate 37 bpm at 1000 psi. ISIP 0. RU blue jet, RIH w/ junk basket and retrieve 84 ball sealers and recorded 42 hits. Start pad and pump 50 bpm at 2100 psi, 35 bpm at 1040 psi, 20 bpm at 0 psi, ISIP o frac point lookout w/ 2396 bbl slick water carrying 43000#, 20/40 brady sand, avg rate 60 bpm, avg pressure 1050 psi, ISIP 0 psi. RU blue jet and set 4 1/2" composite plug at 4600 psi and shoot 4 squeeze holes at 3900'. Break down w/ rig pump, pumped 15 bbl and caught pressure 3 bpm at 500 psi, pumped 5 more bbls and started getting circulation out surface. Pumped 110 bbl and had circulation to surface all the time we were pumping. Start in hole w/ retainer.

3/17/00 RIH and set fast drill retainer at 3813. RU Dowell and establish circulation through squeeze holes at 3900' to surface, squeeze w/ 410 bbl 11.4# slurry and tailed in w/ 30 bbl 12.8# slurry. Had good circulation through the first 230 bbl slurry. Then lost circulation and never got it back. Flushed w/ 14 bbl fresh water, stung out of retainer and dumped 3/4 bbl cement on top of retainer. Pulled one joint of tbg, circulated hole clean and POOH w/ tbg and stinger.

3/20/00 RU Blue Jet. RIH w/ logging tool, monitoring to top of cmt on top of retainer @ 3786'. Pressure up csg to 1000#. Ran CBL to surface, POOH and RD w/l. Found TOC @ 1795' and reported to engineering, conferred and were told to proceed w/ drilling out. TIH w/ 3 7/8" bit on 2 3/8" tbg and tag top of cmt @ 3786'. PU swivel and start drilling on cmt. Drilled to 3813', tagged top of retainer. DO ret and continue to drill out cmt below. Drilled cmt to 3840', circulate clean. Secure well for the night. **Henry Villanueva w/ NMOCD was notified by voice mail and phone conversation @ 2:48 pm and advised of CBL findings. Verbal was given to proceed w/ remainder of work and then would see about squeezing at the end.**

3/21/00 PU swivel and continue to drill out cmt @ 3840'. Dropped out of cmt @ 3906'. Circulate clean. TIH to composite plug @ 4600'. Circulate clean. POOH 60'.

CONOCO INC.  
State #4E  
API #30-045-29781  
790' FNL & 890' FWL, UNIT LETTER "D"  
Sec. 32, T29N-R8W

**3/22/00** TOOH w/ tbg and 3 7/8" bit. Pressure test cmt sqz to 3000#. Held OK. RU frac valve and frac "Y". MI MOTE and start heating up frac tanks. MI Blue Jet and spot equip.

**3/23/00** RU Blue Jet. PU 3 1/8" select fire perf gun w/ 12 gram .3 dia shots (2 spf) and perforate Menefee as follows for total of 26 holes: 4305', 07', 09', 4391', 93', 95', 97', 99', 4514', 16', 18', 20' & 22'. RD w/l and RU BJ. Pressure test lines to 4800#. Breakdown perfs w/ water. Frac Menefee w/ 70929 gals slickwater (2% KCL W/ 42 gals FRW-30, 78 gals Flo-back-20) & 38702# 20/40 Brown sand. Pumped a 428 bbl pad @ 55 bpm @ 3057#, .5# Stg (1455 bbls) @ 59 bpm @ 1785#, 1# Stg (278 bbls) @ 59 bpm @ 1800-1900#. Max pressure 3057#, avg pressure 1950#, avg rate 58 bpm, ISDP 380#, 5 min 299#, 10 min 255#, 15 min 239#, fluid to recover 2185 bbls. Stand by BJ and RU w/l. PU 4 1/2" Halliburton composite plug. RIH and set plug @ 4260'. Pressure test plug to 3000#. OK. POOH and PU 3 1/8" select fire perf gun w/ 12 gram, .3 dia shots (2 spf) and perforate Cliffhouse as follows for total of 46 holes: 4046', 75', 77', 79', 81', 83', 85', 87', 4115', 17', 19', 21', 23', 25', 27', 44', 46', 48', 50', 56', 59', 96' & 98'. POOH and RD w/l. Pressure up and prep to breakdown perfs w/ water and 88- 7/8" 1.1 sp gr R ball sealers. Dropped balls in 22 stages. Perfs broke @ 1050# @ 10 bpm. Max pressure 3780#, max rate 18 bpm. SD for ISDP, 0#. Standby BJ and RU w/l. RIH w/ junk basket and knock off ball sealers. RD w/l and prep to frac. Frac Cliffhouse w/ 107058 gals slickwater (2% KCL, 21 gals FRW-30, 102 gals Flo-back -30) & 50500# 20/40 Brown sand. Pumped 571 bbl pad @ 60 bpm @ 2100#. .5# stg @ 60 bpm @ 1700#. 1# stg 60 bpm @ 1620#. Max pressure 2100#, avg pressure 1700#, avg rate 60 bpm, ISDP 150#, 5 min 0#, fluid to recover 2549 bbl. RD BJ. Flow back well thru 1/2" choke up the csg. Well logged off. Drained lines.

**3/24/00** 300# Csg. Open well to flow on 1/2" choke. Pressure stabilized @ 200# and bringing back heavy fluid. Flow test well overnight. Rigged up water cannon to start evaporating reserve pit.

**3/25/00** Continue to flow back well and testing on 1/2" choke from overnight. Pressure @ 140#. Final pressure at the end of the day was 100# and slugging fluid, approx. 1/2 BPH. Well test: Oil 0, Water 10, Gas 660 MCFPD, No tbg, Csg 100#, 1/2" choke. NO TBG IN HOLE, FLOWING UP CSG.

**3/27/00** 600# Csg. Bleed well down. TIH w/ mill & 132 jts 2 3/8" tbg. Tag fill @ 4120'. CO sand to plug @ 4260'. Drill out plug. TIH to 4580' and cleanout sand to 4600'. POOH w/ 4 jts. Flow up tbg on 1/2" choke. Turned over to dry watch w/ 250# on tbg and 480# on csg.

**3/28/00** 210# Tbg 460# Csg. Kill well. TIH w/ 2 3/8" tbg and mill and tag sand @ 4540'. Cleanout to BP @ 4600'. Drill out plug and circulate clean. TIH w/ 5 jts and tag up @ 4790'. Pull up 2 jts and blow around. Start flowing up tbg turned over to drywatch w/ 200# on tbg and 480# on csg. Overnight Test: 0 Oil, Light Water, 1386 MCFPD, 210# tbg, 460# csg, 1/2" choke

**3/29/00** 190# Tbg, 480# Csg. Kill well. CO 50' of fill. Drillout composite plug @ 4850'. Circulate clean. TIH w/ 64 jts 2 3/8" tbg to 6900'. Blow well around, get flowing up tbg. Turn over to dry watch with 125# tbg and 560# csg.

**3/30/00** Tbg o psi, csg 600 psi. Bleed casing down, RIH w/ tbg, tag and clean out 93 feet of fill to PBTD. Pull up hole to 6900 feet and unload well w/ gas compressors. POOH w/ tbg. RIH w/ 4 1/2" RBP set at 3800 feet and test to 2000 psi (ok). POOH w/ tbg.

**3/31/00** Rig up blue jet and shoot two squeeze holes at 1500'. POOH w/ e-line. Pump down casing, break squeeze perfs down at 700 psi and circulate water to suface out the surface pipe. RIH w/ 4 1/2" packer set at 1300. Rig up Dowell, mix and pump 385 sacks lead cement (11.4 ppg) and 100 sacks tail (15.6 ppg). Circulated cement to surface and flushed w/ 7.8 bbl fresh water.

**4/3/00** Release packer and POOH. RIH w/ drill equipment and tag cement at 1330'. Pick up swivel and drill cement 1330' to 1450'. RIH and tag sand, clean out to RBP at 3800'. POOH w/ drill equipment and test casing to 1500 psi (ok). RIH w/ ret head, retrieve RBP at 3800' and POOH. RIH w/ mule shoe and seating nipple to 6800'.

**4/4/00** Unload well, test Dakota and MV. 2 3/8" tbg set at 6800'. Tbg pressure 220 psi, casing pressure 560 psi, 10 BPD water, 2 BPD oil, flowing on a 1/2" choke, rate 1452 MCFPD, test witnessed by Wes Herrera w/ Key Energy.

**4/5/00** Casing pressure 600 psi, tbg pressure 550 psi. RIH and tag bottom at PBTD. (NO FILL) Pull up hole and land tbg w/ 214 joints 2 3/8" j-55 tbg at 6751'. ND BOP NU wellhead. RDMO