

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-101
Revised 10-1-78

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease
STATE ☐ FEE ☒
5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well OIL WELL ☒ GAS WELL ☐ OTHER ☐ DRILL ☒ DEEPEN ☐ PLUG BACK ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐		7. Unit Agreement Name
2. Name of Operator Greenwood Resources Inc.		8. Farm or Lease Name Kirtland
3. Address of Operator 315 Inverness way South, Englewood, CO 80112		9. Well No. Joint with 181 (Kirtland #3)
4. Location of Well UNIT LETTER <u>A</u> LOCATED <u>990</u> FEET FROM THE <u>North</u> LINE AND <u>360</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>18</u> TWP. <u>29N</u> RGE. <u>14W</u> NMPM		10. Field and Pool, or Wildcat Cha Cha (Gallup)
		11. Joint w/ #3
		12. County San Juan
19. Proposed Depth 4700'		19A. Formation Gallup
20. Rotary or C.T. Rotary		
21. Elevations (Show whether DF, RT, etc.) 5161' GL	21A. Kind & Status Plug. Bond Statewide	21B. Drilling Contractor Four Corners
		22. Approx. Date Work will start February 1, 1985

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4'	8 5/8'	24#	300'	110	Circ
7 7/8'	4 1/2'	9.5#	4700'	970	Circ

- 1) Drill surface hole to 340'
- 2) Set 8 5/8" 20# surface csg @ 300'. Cmt w/ 110 sxs reg cmt. containing 1/4#sx flo-seal & 3% CaCl
- 3) Drill 7 7/8' hold to 4750'
- 4) Run GR/Density/Caliper log
- 5) Run 4750' of 4 1/2" 9.5# ST&C csg. DV tool approx. 3095'
- 6) Cmt. w/ 970 sxs in 2 stgs, circ cmt.

APPROVAL EXPIRES 7-25-85
UNLESS DRILLING IS COMMENCED.
SPUD NOTICE MUST BE SUBMITTED
WITHIN 10 DAYS.

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DIST. 3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Paul E. Pankam Title V.P. Engineering Date January 22, 1985

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT # 3 DATE JAN 25 1985

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-102
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All distances must be from the outer boundaries of the Section.

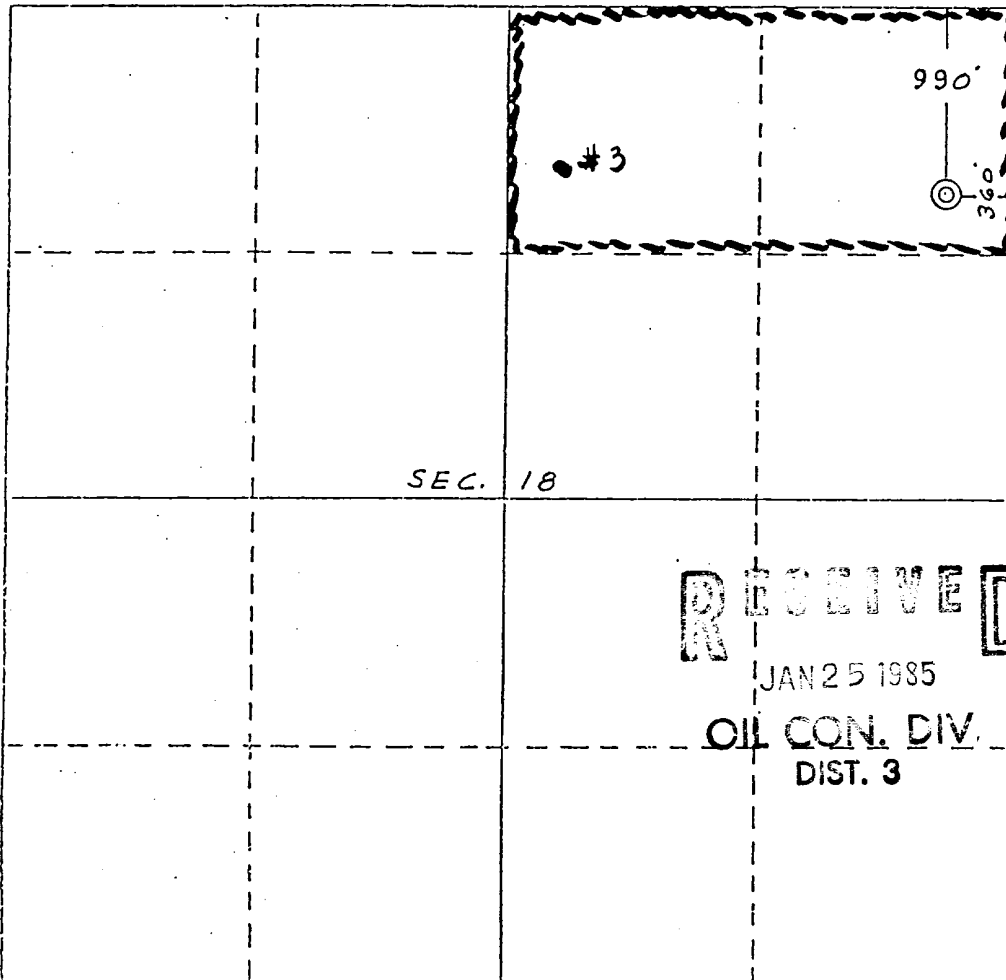
Operator Greenwood Resources			Lease Kirtland		Well No. 18 1
Unit Letter A	Section 18	Township 29 North	Range 14 West	County San Juan	
Actual Footage Location of Well: 990 feet from the North line and 360 feet from the East line					
Ground Level Elev. 5161	Producing Formation Gallup		Pool Cha Cha		Dedicated Acreage: 80 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation All leases held by Greenwood

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Poul E. Poulsen
Poul E. Poulsen

Name
V.P. Engineering
Position
Greenwood Resources Inc.
Company
September 19, 1984
Date

I hereby certify that the location shown on this plat was located in the field and that the same is correct to the best of my knowledge and belief.

Date Surveyed
September 14, 1984
Registered Professional Engineer
and/or Land Surveyor
Edgar L. Risenhoover
Certificate No. 5979
Edgar L. Risenhoover, L.S.

330 050 60 1370 1680 1990 2310 2620 2930 3240 3550 3860 4170 4480 4790 5100 5410 5720 6030 6340 6650 6960 7270 7580 7890 8200 8510 8820 9130 9440 9750 10060 10370 10680 10990 11300 11610 11920 12230 12540 12850 13160 13470 13780 14090 14400 14710 15020 15330 15640 15950 16260 16570 16880 17190 17500 17810 18120 18430 18740 19050 19360 19670 19980 20290 20600 20910 21220 21530 21840 22150 22460 22770 23080 23390 23700 24010 24320 24630 24940 25250 25560 25870 26180 26490 26800 27110 27420 27730 28040 28350 28660 28970 29280 29590 29900 30210 30520 30830 31140 31450 31760 32070 32380 32690 33000 33310 33620 33930 34240 34550 34860 35170 35480 35790 36100 36410 36720 37030 37340 37650 37960 38270 38580 38890 39200 39510 39820 40130 40440 40750 41060 41370 41680 41990 42300 42610 42920 43230 43540 43850 44160 44470 44780 45090 45400 45710 46020 46330 46640 46950 47260 47570 47880 48190 48500 48810 49120 49430 49740 50050 50360 50670 50980 51290 51600 51910 52220 52530 52840 53150 53460 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148940 149250 149560 149870 150180 150490 150800 151110 151420 151730 152040 152350 152660 152970 153280 153590 153900 154210 154520 154830 155140 155450 155760 156070 156380 156690 157000 157310 157620 157930 158240 158550 158860 159170 159480 159790 160100 160410 160720 161030 161340 161650 161960 162270 162580 162890 163200 163510 163820 164130 164440 164750 165060 165370 165680 165990 166300 166610 166920 167230 167540 167850 168160 168470 168780 169090 169400 169710 170020 170330 170640 170950 171260 171570 171880 172190 172500 172810 173120 173430 173740 174050 174360 174670 174980 175290 175600 175910 176220 176530 176840 177150 177460 177770 178080 178390 178700 179010 179320 179630 179940 180250 180560 180870 181180 181490 181800 182110 182420 182730 183040 183350 183660 183970 184280 184590 184900 185210 185520 185830 186140 186450 186760 187070 187380 187690 188000 188310 188620 188930 189240 189550 189860 190170 190480 190790 191100 191410 191720 192030 192340 192650 192960 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237600 237910 238220 238530 238840 239150 239460 239770 240080 240390 240700 241010 241320 241630 241940 242250 242560 242870 243180 243490 243800 244110 244420 244730 245040 245350 245660 245970 246280 246590 246900 247210 247520 247830 248140 248450 248760 249070 249380 249690 249999

WELL COST ESTIMATE

WELL NAME Kirtland NO. 18-1 PROSPEC. NAME Kirtland
 LOCATION SW NE NE 18-T29N-R14W DATE August 29, 1984
 COUNTY San Juan STATE NM PREPARED BY Poul E. Poulsen

DRILLING INTANGIBLES (320)

001	Abstracts, Title & Legal Expense	
002	Insurance/Blow-out/Insurance Claims	
003	Stake Location, Permits, Damages	2,000
004	Location, Roads, Lease clean-up	10,000
005	Transportation-Equipment	
006	Services & Contract Labor, Welding, Casing Crew	*
008	Rig _____ days @ \$ _____ /day and/or _____ feet @ \$ _____ /foot	*
009	Daywork _____ Includes all of *	53,000
010	Bits/Reamers	*
011	Fuel/Power	*
012	Water/Water Hauling	*
013	Drilling Mud/Additives	*
014	Mud Logging	
015	Equipment Rental	
016	Rig Mobilization/Demobilization	*
017	Casing Accessories	200
018	Cement & Services	3,000
019	Drillstem Test	
020	Coring	
021	Open Hole/Electrical Logging	4,000
022	Miscellaneous Equipment & Supplies	4,000
023	Overhead-Drilling	1,400
024	Geological Service & Expense	
025	Engineering/Company Supervision/Foreman	
026	Supervisor-Contract/Engineer or Foreman & Expenses	600
028	P & A Lease Restoration & Environmental Concerns	
	CONTINGENCIES (320.027)	
	SUB-TOTAL INTANGIBLES	78,200

DRILLING TANGIBLES (330)

001	Casing Head	
002	Surface Casing <u>340' 8 5/8" 20# ST&C</u>	2,000
003	Intermediate Casing	
004	Centralizers, Scratchers, Shoe Guide	
	SUB-TOTAL TANGIBLES	
	TOTAL HOLE COST	80,200

COMPLETION INTANGIBLES (340)

003	Permanent Damages, Permits	4,000
004	Dirt Work-Road & Location	1,500
005	Transportation-Equipment	
006	Services & Contract Labor, Welding, Casing Crew	2,500
009	Completion Unit _____ days @ \$ _____ /day	8,000
012	Water/Completion Fluids	
019	Equipment Rental _____ Casing Scraper & Bit. BOP.	4,000
014	Cement & Services	15,000
015	Perforating	2,000
016	Cased Hole Logging	2,000
017	Stimulation & Treatment	20,000
020	Miscellaneous Equipment & Supplies	
021	Overhead-Completion	
022	Engineering/Supervision	500
	SUB-TOTAL INTANGIBLES	59,500

COMPLETION TANGIBLES (350)

001	Production Casing & Liner	16,000
002	Casing Accessories/Float Equipment	3,500
003	Production Tubing	10,700
004	Wellhead/Christmas Tree	1,500
005	Pumping Unit/Prime Mover	18,000
006	Subsurface Equipment/Bottom Hole Pump	1,800
007	Flowlines	4,000
009	Tanks, Stairways & Walkways	
010	Treators/Production Unit	
011	Separators/Dehydrators	
014	Meters/Oil-Gas	
015	Electrical Equipment	

COMPLETION TANGIBLES (351)

051	Rods, Sucker/Polished/Scraper	5,300
053	Valves, Fittings & Miscellaneous Equipment	2,500
	CONTINGENCIES (350.017)	1,000
	SUB-TOTAL TANGIBLES	64,300
	TOTAL COMPLETION COSTS	123,800
	TOTAL WELL COSTS	204,000

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